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HIGHER SKILLS, HIGHER WAGES AND HIGHER ACHIEVEMENT

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Supported by grant number E-9-4-5-0012 from the Women's Bureau, United States Department of Lab

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TRADES HELPERS CORRECTIONAL INSTITUTION OFFICERS CRANE & TOWER OPERATORS CRUSHING & GRINDING MACHINE OPERATORS DATA PROCESSING

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SHAPERS HEATING AIR CONDITIONING & REFRIGERATION MECHANICS HELPERS CONSTRUCTION TRADES HEAVY EQUIPMENT REPAIRERS HORTICULTURAL

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TRA TOR EQUIL INTOPERATORS INDUSTRIAL ENGINEERS INSULATION WORKERS JANITORS & CLEANERS JUDGES LOCKSMITHS & SAFE REPAIRERS LOCO-

MOTIVE OPERATORS MACHINISTS MAIL CARRIERS POSTAL SERVICE MANAGERS FARM MANAGERS & ADMINISTRATORS SELF-EMPLOYED

MECHANICAL ENGINEERS MECHANICAL ENGINEERING TECHNICIANS MESSENGERS METER READERS MILLWRIGHTS MISC. PRECISION WORKERS MISC. WOOD

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HIGHER SKILLS, HIGHER WAGES AND HIGHER ACHIEVEMENT

AN EVALUATION OF THE MASSACHUSETTS WOMEN IN NONTRADITIONAL OCCUPATIONS PROJECT

Supported by grant number E-9-4-5-0012 from the Women's Bureau, United States Department of Labor

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Data for this evaluation was gathered from statistics compiled by the management information system (MIS) of the Division of Employment and Training and reports from the Directors of the Metro South/West Service Delivery Area and the North Central Massachusetts Regional Employment Board and the Project Coordinators from the Bay State Skills Corporation and the Massachusetts Industrial Services Program. Post-fifty-two week follow-up was conducted using the Division of Employment and Training's Unemployment Insurance Wage database. The program participants were matched to the quarterly wage and employment status data. In addition to interviews with advisory committee members, employers and training instructors were interviewed and surveys and focus groups with participants were conducted by the principal investigator. The recommendations are those of the author.

Dorothy Rona Sullivan Project Evaluator

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Executive Summary

Fifty-nine women were trained through the Women in Nontraditional Occupations program which was implemented in two distinct geographical, industrial, and demographic regions of Massachusetts: the Metro South/West and the North Central Massachusetts Service Delivery Areas (SDAs).

The evaluation provided a close examination of the program, analyzing the experiences of its two distinct components. The experience held important lessons on strategies to recruit and retain women in nontraditional programs. The project yielded replicable approaches for training and placing women enrolled in nontraditional occupations training.

Multiple outreach strategies, including public service announcements, were used extensively to ensure participation rates in the program. Each SDA engaged in comprehensive recruitment to encourage women to consider nontraditional careers.

The most fruitful recruitment methods for the Metro South/West SDA were reverse referrals from training institutions to the training sponsor, the public assistance agencies, and the local employment service office.

One-half of the North Central Massachusetts participants learned of the program from classified ads and newspaper articles. Referrals from employers were a major source of program recruits.

Vocational and career counseling were integrated into training programs because some job seekers were not sufficiently informed about wages and occupational outlook.

The wages expected by participants upon enrollment averaged higher than the training sponsor's projected placement wages and were substantially above the entry wages subsequently obtained. The Metro South/West participants were required upon program acceptance to research the occupation they pursued. In mid-October, the North Central participants completed the Industry Trends and Occupations workshop. By June 1996, the anticipated wages approximated the actual entry wages offered the graduates of the program.

Self-awareness and self-esteem workshops which were included in the nontraditional occupations training were found to be beneficial for training retention and participants' confidence.

A series of workshops were held in each SDA to help the women to prepare for the challenges of working in a nontraditional environment. Sixteen participants (57% of the enrollees) attended these workshops in the Metro South/West. Twenty-seven North Central participants (87% of the enrollees) completed the series of workshops. These wamen strongly recommended the self awareness and self-esteem workshops.

Training sponsor administrators believed that the self-awareness and self-esteem workshops improved the training component retention rate (89% in Metro South/West and 97% in North Central Massachusetts).

Mentoring programs required tremendous time commitment, coordination and planning.

The mentoring component was particularly difficult to implement because of the small pool of women emplayed in nontraditional occupations who were willing to make the time commitment.

In the Metro South/West SDA, twelve months were required to recruit two mentors for four students at TAD Technical Institute.

One-hundred fifty women were contacted over eleven months by the North Central REB project for mentor leads. Mentor identification of thirty women yielded by March eight women able to provide mentoring. The ratio of mentors to proteges was one-to four. Some participants reported positive mentor/protege experiences.

Each region developed a different training model which impacted recruitment efforts, the delivery of supportive services and retention rates. The Metro South/West program provided individual referrals for occupational instruction at diverse training institutions. The North Central Massachusetts program designed a late afternoon group training program focusing on transferrable skills and exposure to occupational skills in the plastics industry.

The Metro South/West SDA provided training opportunities to twenty-eight women, twenty-seven in nontraditional programs including electrical, electronics/communications training (3 women), automotive mechanics (4), small appliance and electrical repair (7), laboratory technologies (5), carpentry (1), data processing (4) [the source of one-fourth of SDA services employment], graphics and printing equipment (2), and truck driving (1). The remaining participant enrolled in a computer facilities training program (although traditional) which offered high wages in occupations with favorable outlooks. The Metro South/West training program retention rate was eighty-nine percent, much higher than the seventy percent retention rate of non-participants.

Thirty-one women enrolled in the North Central Massachusetts Plastics Technology/Technician program. The program provided introductory training through hands-on workshops in machining, computer-assisted design, and computer processing. The training retention rate of ninety-seven percent compared favorably to a sixty-five percent training retention rate for non-participants.

A modified voucher approach permitted individualized, customized training meeting the interests and aptitudes of the participants. It was empowering for the participants, but time-consuming for the training sponsors. The process was dependent on academic calendars and involved fiscal controls, contracting, scheduling, interagency coordination, and intensive follow-up.

The average time elapsed from the participant's first contact with the Metro South/West's intake to the start of the individualized training was ten weeks, with a mode of seven weeks. The enrollment of participants was impacted by academic schedules. During the first four months of the MSW program, women enrolled in training programs at proprietary and regional vocational technical schools which had monthly start dates. In the second half of the program, enrollments were predominantly in semester based certificate programs at colleges, proprietary schools, and regional vocational technical schools.

Phase Three of the North Central training program, in which participants selected courses fulfilling their individualized employability plans, began in February 1996, a month past the prevalent spring semester start in colleges and regional vocational-technical schools. The initial enrollments were at an employer-sponsored technical institute.

Employer involvement in the design of curricula increased the relevancy of training, improved the delivery of training, and boosted participants' motivation.

The North Central REB staff partnered with the local technical school, o community college and the North Central Plastics Council, in the design and implementation of the training program, Women in Plastics. The curriculum met the expressed needs of industry representatives. Mold making, computer processing, and CAD/CAM were included in the curriculum. Current topics such as ISO 9000, the European quality control standard, were covered in the curriculum. Many employers guest lectured. The participants expressed their appreciation of the hands-on training.

Training focused on occupations and industries which had favorable employment outlooks and paid living wages which contributed to the high entered employment rates of program participants.

Twenty-two women in the Metro South/West program entered employment at on average hourly wage of \$10.59 with benefits. Seventy-nine percent of the Metro South/West participants obtained employment compared to fifty-five percent of the non-participants.

Twenty graduates of the North Central Massachusetts program entered employment at an average hourly wage of \$9.50. The sixty-seven percent entered employment rate compared favorably with the forty-seven percent rate of non-participants enrolled in other Title II-A JTPA (Job Training Partnership Act) classroom training. In addition, eight women graduates retained their employed status resulting in a program employment rate of eighty-four percent.

Multiple job search methods and intermediaries were used to secure employment.

The grant proposal was vague about job search methods and placement intermediaries. Relatively little information was included about coordination and collaboration of job placement efforts. A self-directed job search was assumed.

Two of the three North Central Massachusetts participants who obtained employment after the program started subsequently were laid off because of slack work. These unsuccessful placements combined with women with no work history and five welfare recipients with limited work history suggested a need for a more organized job search which was implemented by the North Central Massachusetts Regional Employment Board.

Multiple job search methods were used by North Central participants. One participant secured her job by applying directly to a plastics employer. Another participant found employment at a plastics company at which a guest speaker was employed. Two women gained employment at a plastics company at which a mentor worked. Three participants reported finding jobs through newspaper advertisements and one through the referral of a friend.

Training institutions and the employment service provided job leads, particularly for the nontraditional occupations. Ten graduates of the Metro South/West program employed in nontraditional occupations earned an average hourly wage of \$9.80. The five North Central graduates employed in non-traditional occupations earned on average hourly wage of \$9.95.

Training programs were beneficial to workers employed part-time, employed at temporary help agencies or facing layoffs.

Two Metro South/West women employed part-time upon enrollment increased their average weekly wages over twenty percent to \$8.00 with workweeks of 30 to 40 hours respectively.

In the North Central program four participants were employed part-time upon enrollment. Three women found full-time employment upon training completion. They increased not only the number of hours they worked, but also their average hourly earnings, almost ten percent to \$7.87.

Two employed women who entered the North Central program faced layoffs and subsequently lost their jobs. Continuing with the training, they regained employment as an electrical solderer at \$6.50 per hour and as an applications engineer at \$35,000 per year.

Intensive follow-up increased retention and increased "entered employments" and "employability enhancements", reportable on the Job Training Partnership Act reporting system.

A case manager in the Metro South/West service delivery area was assigned to monitor and follow-up participants. At the fifty-two week follow-up, three women who had completed four quarters of employment had received post-placement wage increases.

The Women in Plastics Program provided intensive follow-up and tracking. A REB staff member initiated ardent follow-up by mail and telephone. This aggressive follow-up captured wage increases received by participants. At the fifty-two week follow-up, seven women had received post-placement wage increases.

Introduction

This program, The Workforce of the Future: Women in Nontraditional Occupations, was designed for a grant received by the Executive Office of Economic Affairs and the Massachusetts Division of Employment and Training from the Women's Bureau of the United States Department of Labor to develop programs to expand occupational opportunities for women.

The program brought together a unique coalition of state agencies, private sector partners, and community-based organizations to focus training and employment efforts and support services on women in nontraditional occupations. The coalition focused on developing strategies to help women obtain the skills to become competitive in an increasingly changing workforce.

The collaboration included the Division of Employment and Training (the state employment service), the Bay State Skills Corporation's Center for Women, Work and Family (a quasi public employment and training agency), Women in the Building Trades (a private non-profit agency promoting women in nontraditional occupations), the Massachusetts Occupational Information Coordinating Committee (the state SOICC), the Industrial Services Program (the state Job Training Partnership Act Title III agency for displaced workers), the Metro South/West Workforce Development Career Center (a nonprofit JTPA Title II service delivery agency for disadvantaged job seekers), and the North Central Massachusetts Regional Employment Board (the non-profit workforce development investment council in north central Massachusetts).

Approximately sixty women were trained through the program. The program was implemented in two distinct geographical, industrial, and demographic regions of the state: Metro South/West and North Central Massachusetts.

The Metro South/West area is an urban/suburban area adjacent to Boston, with a diversified industrial base and a relatively low unemployment rate compared to other regions of Massachusetts. Composed of a mobile, largely white-collar and high wage blue-collar work force, the Service Delivery Area (SDA) had the lowest unemployment rate (3.7%) in Massachusetts in 1995. Services, the largest industry sector, accounted for one-third of all jobs. Computer and data processing workers comprised twelve percent of service industries employment. About one-quarter of the 1995 employment was in the trades sector. Three percent of employment was in the construction industry. Women were underrepresented in precision production, craft and machine operating positions.

The area is criss-crossed with limited access superhighways from north to south and east to west. Three commuter rail lines transport workers to Boston. The training component in this area was built on an existing training model and included a unique program design of customized, individualized referrals to nontraditional training for women.

The North Central Massachusetts region, an urban/rural area located in central Massachusetts surrounding three mature cities, has traditionally been known for its manufacturing base which has suffered devastating losses in recent years. The largest industry sector, manufacturing, employed over one-fourth (28%) of the area's workers in 1995, followed by the services industries (24%). The trade sector provided employment to over one-fifth of the region's workers. Plastics, a vital component of the area's economy, employed over one-fourth of the region's manufacturing workers in 1995. The combined employment of workers in plastics materials and synthetics (SIC 282) and rubber and miscellaneous plastics products (SIC 30) industries in north central Massachusetts represented over nineteen percent of statewide industry employment. The 1995 SDA unemployment rate of 5.7% was higher than the Massachusetts unemployment rate (5.4%). This was the seventh highest rate of the state's sixteen service delivery areas. The female per capita income was lower than the statewide average and the number of female heads of household living below the poverty level was substantially above the statewide average. Women were underrepresented in technical, precision production and machine operating positions.

The region has one limited access highway east to west and two partial north-south highways. There is one commuter rail to Boston. The most northern portion adjacent to New Hampshire lacks limited access highways and public transportation. The North Central Massachusetts component for this program featured a new group training program, providing women with customized training designed to teach them a variety of transferrable skills and to prepare them to work in nontraditional occupations in the plastics industry.

This report offers a close examination of the Massachusetts Women in Nontraditional Occupations program, analyzing the experiences of its two components. The experience holds important lessons for others as they conceptualize and implement community-wide strategies to recruit and retain women in nontraditional careers. The report also provides an extensive list of recommendations for training and placing women in nontraditional programs. We hope this report will be a useful resource for practitioners and policymakers as they work to improve the training opportunities and job prospects for women.



The Participants

The Participants

The majority of participants in both the Metro South/ West (MSW) and the North Central Massachusetts (NCM) Service Delivery Areas were between the ages of 30 -39 (43% and 42% respectively), followed by the age cohort 40-54 (21% and 35% respectively). In both settings, the participants were predominantly white, non-hispanic (82% and 74% respectively). Four out of five participants in both SDAs completed high school or attended post-secondary education. Greater than sixty percent had recent or current employment. A much higher share of the participants in the Metro South/West SDA were unemployed (46%) compared to the North Central SDA (13%). Conversely, only eighteen percent of the MSW participants were employed compared to over half (58%) of the North Central Massachusetts participants.

The socioeconomic histories of the participants differed. Participants in the Metro South/West project were more likely to be Aid to Families with Dependent Children (AFDC) recipients, economically disadvantaged, or single head of households. Eighty-six percent of the MSW participants were classified as economically disadvantaged compared to thirty-six percent of the North Central enrollees. Almost two-thirds of the MSW enrollees were single heads of household compared to just under one-third of the NCM participants. The single heads of household were predominantly high school graduates (average grade: 12, MSW and 12, NCM) and in their mid thirties (average age: 34, MSW and 35, NCM). Individuals with disabilities were more prevalent in the Metro

South/West project (21% versus the North Central's three percent). The Metro South/West enrollees were less likely to be members of minority groups (18% versus 26%) and limited English speaking (4% versus 7%) than North Central participants.

METRO SOUTH WEST SDA

NORTH CENTRAL MA SDA

	SDA		SDA			
	Number	Percent	Number	Percent		
TOTAL PARTICIPANTS	28	100	31	100		
FEMALE	28	100	31	100		
AGES 22 - 29	9	32	7	23		
AGES 30 - 39	12	43	13	42		
AGES 40 - 54	6	21	11	36		
AGES 55 - OVER	1	4	0	0		
WHITE (Not Hispanic)	22	82	23	74		
MINORITY SUBTOTAL	5	18	8	26		
BLACK	2	7	3	10		
HISPANIC	2	7	3	10		
AMERICAN INDIAN/ALASKAN	1	4	0	0		
ASIAN OR PACIFIC ISLANDER	0	0	2	7		
SCHOOL DROPOUT	6	21	3	10		
STUDENT (HS OR LESS)	0	0	0	0		
HIGH SCHOOL GRAD OR EQUIV	17	61	17	55		
POST HIGH SCHOOL ATTENDEE	5	18	11	36		
UNEMPLOYED	13	46	4	13		
LONG TERM (15+)	11	39	2	7		
EMPLOYED	5	18	18	58		
NOT IN LABOR FORCE	10	36	9	29		
WELFARE RECIPIENT	11	39	7	23		
AFDC	11	39	7	23		
GENERAL ASSISTANCE	0	0	0	0		
REFUGEE ASSISTANCE	0	0	0	0		
FOOD STAMP RECIPIENT	1	4	0	0		
SSI RECIPIENT	0	0	0	0		
UI CLAIMANT	8	29	1	3		
UI EXHAUSTEE	0	0	3	3		
LIMITED ENGLISH	1	4	2	7		
DISABILITIES	6	21	1	3		
OFFENDER	2	7	0	0		
ECONOMICALLY DISADVANTAGED	24	86	11	36		
SINGLE HEAD OF HOUSEHOLD	17	61	10	32		
VETERAN	1	4	1	3		
PUBLIC HOUSING RESIDENT	4	14	0	0		

The Crafts, Repair and Technologies Program in South Suburban Boston

Participonts in the Metro South/West nontraditional occupations for women project were only slightly older than female SDA registrants not enrolled in the project. Although the oge difference was minimal, nontraditional opportunities (NTO) participants indicated that both maturation and prior work experience had influenced their choice to participate in the project. A slightly higher percentage of NTO participants were white.

Participants were less likely to hove attended post secondary education than non-porticipants. Eighteen percent of the NTO enrollees had received some formal education beyond high school versus over thirty-one percent of the non-NTO participants.

MSW participants were more likely to have porticipated in the labor force than non enrollees. Thirty-six percent of the initial NTO project participants were not in the labor force compared to over forty-three percent of non-NTO enrollees. Forty-six percent of the women in the NTO project were unemployment insurance claimants compared to forty-three percent of non-NTO enrollees. Enrollees in the Metro South/West NTO project were less likely to be welfare recipients than

non-NTO registrants. About forty percent of the NTO participants were welfare recipients versus olmost sixty-five percent of non-participants.

A greater percentage of NTO porticipants were disabled or offenders than non-NTO enrollers. Twenty-one percent of NTO participants had disabilities versus twelve percent of non-porticiponts. Seven percent of NTO enrollees were post offenders, more than three times the non-NTO percentoge of two.

Women in Plastics in North Central Massachusetts

The North Central Massachusetts participants in the Women in Plastics project were somewhat older than the female SDA registrants who did not enroll. The percent of mid-life women aged 40-54 (36%) enrolled in the Project wos more than twice that of non-NTO enrollees (17%). Porticipants in the North Central NTO project were somewhat more likely to be members of a minority group. Almost twenty-six percent of the NTO participants were clossified os minority, more than twice the eleven percent of non-NTO enrollees. Twice the number of NTO porticipants (36%) had received post-secondary education as the remaining registrants (17%).

Participonts in the NTO project were more likely to be porticipoting in the labor force than non-NTO enrollees. Twenty-nine percent of the NTO porticiponts were not in the labor force, substantially less than the almost forty-seven percent of the non-enrollees. Enrollees in the NTO project were less likely to be welfare recipients than non-participants (23 percent versus 40 percent). Participants in the North Central NTO project were less likely to have claimed unemployment insurance (13% versus 27%).

Only thirty percent of the project's participants were economically disodvontaged compared to nearly all of the non-enrollees. Similorly, the percentage of single heads of households enrolled in the NTO project (32%) was one-half of the non-NTO porticiponts (64%).

METRO SOUTH WEST

N. CENTRAL MA

	SDA		SDA			
	NTO	OTHER	NTO	OTHER		
TOTAL PARTICIPANTS	27	232	31	144		
FEMALE	27	232	31	144		
AGES 22 - 29	9	82	7	58		
AGES 30 - 39	12	99	13	58		
AGES 40 - 54	5	45	11	24		
AGES 55 - OVER	1	6	0	4		
WHITE (Not Hispanic)	22	182	23	128		
MINORITY SUBTOTAL	5	50	8	16		
BLACK	2	29	3	5		
HISPANIC	2	16	3	10		
AMERICAN INDIAN/ALASKAN	1	0	0	0		
ASIAN OR PACIFIC ISLANDER	0	5	2	1		
SCHOOL DROPOUT	5	26	3	4		
STUDENT (HS OR LESS)	0	1	0	0		
HIGH SCHOOL GRAD OR EQUIV.	17	132	17	115		
POST HIGH SCHOOL ATTENDEE	5	73	11	25		
JNEMPLOYED	12	100	4	59		
ONG TERM (15+)	11	71	2	34		
MPLOYED	5	31	18	18		
NOT IN LABOR FORCE	10	101	9	67		
WELFARE RECIPIENT	11	150	7	57		
AFDC	11	149	7	57		
GENERAL ASSISTANCE	0	1	0	0		
REFUGEE ASSISTANCE	0	0	0	0		
FOOD STAMP RECIPIENT	1	14	0	22		
SSI RECIPIENT	0	8	0	9		
JI CLAIMANT	8	30	1	32		
JI EXHAUSTEE	0	9	3	7		
IMITED ENGLISH	1	20	2	3		
DISABILITIES	6	28	1	16		
DFFENDER	2	5	0	1		
ECONOMICALLY DISADVANTAGED	23	230	11	143		
SINGLE HEAD OF HOUSEHOLD	17	168	10	92		
VETERAN	1	0	1	1		
PUBLIC HOUSING RESIDENT	4	88	0	0		

The Massachusetts Response Form

One-third of the individuals enrolled in the Metro South/West SDA and one-half of the individuals enrolled in the North Central SDA returned their Reaction Forms by January, 1996. One hundred percent expected to be better informed about transferrable and job search skills. Ninety percent expected to be more knowledgeable about specific job skills and job retention skills. The women believed in equity in occupations, industries and wages. All twenty-five respondents believed that women should earn the same wages as comparably qualified men. Ninety percent of the respondents expressed belief in strong work ethics: very hard work, self-management, and reasonable job structure. However, there was less cansensus on the availability of job options and the utility of multiple strategies far task campletion. Eighty percent of the respondents agreed that there were many different options far emplayment and that there was more than one way to complete a job.

Eighty percent believed that pathways existed to solve problems and that they had the mental energy to pursue their goals. However, only sixty percent of the women definitely agreed with the statement "I've been pretty successful in my life." In summary, the women were similar in their responses to individuals who focused on succeeding rather than failing and who perceived that they would obtain their goals. All of the respondents indicated that they were more optimistic about their future than one year ago. Eighty percent of the responses defined the term: non-traditional occupation. The largest number described it as an occupation with more men than women, followed by the definitions: not usually for women and not customary for women.

Over one-half the respondents indicated that they participated in the program to obtain specific occupation/industry skills. Forty percent replied that they selected the training because they were interested in

the subject matter. Three women volunteered that they were in the program to further their education. About sixty percent af the valunteered concerns were economic: wages and benefits.

A series of open-ended questions asked the women to visualize their work in two years. Mast items were completed with responses ranging from detailed to vague. Ninety percent of the respondents named Massachusetts as the state in which they expected to work. (The three women working in New Hampshire did not respond to the survey). One respondent expected to be working outside the state. Many respondents were uncertain if they would be working in a city ar a suburb. Nevertheless, ane-half named a location in which they would like to work. Sixty percent indicated a preference to work indoors. Seventy percent stated a preference for specific hours. Eighty percent anticipated warking with tools and sixty percent working with machinery. Less than one-third expected to be using computers ar office equipment. The majarity were unsure how many pounds they would be required to lift on the job. Seventy percent of the respandents expected to be working with customers and co-warkers. One-half anticipated warking with suppliers.

Ninety percent responded to the question on expected earnings. The desired Metro South/West average hourly wages ranged from \$12 to \$50, with an average of \$22 and a mode of \$15. The North Central respondents anticipated average haurly wages ranging from \$9 to \$20, with an average of \$14 per hour and a mode of \$15. As the Metro South/West project hoped to place twenty-three women in nontraditional occupations with a starting wage between \$9 and \$21 per hour plus benefits and the North Central prajected placing twenty-three women with entry wages between \$7 to \$10 per hour with benefits, at least two participants expectations were high. Almost sixty percent of the respondents indicated that they did not know if they would be union members in two years.

PARTICIPANT'S COMMENTS

- I need to updote my skills & educate myself, so that I om more morketable
- I need support and encouragement
- I need confidence
- I hove bod legs. I om permanently disobled.
- I hope to get o better understonding of how to get oheod in my future coreer
- I hope to better myself and my son's life
- I hope I hove enough confidence to tockle o new iob
- I hope to be treoted foirly when I om opplying for o job

Summary of the Evaluation of the Reaction Form

EXPECTATIONS

100 percent of those who completed the Reaction Form expected to be better informed about transferrable and job search skills

100 percent of the respondents believed that women should earn the same wage as comparably qualified men.

90 percent expected to be more knowledgeable about specific job and job retention skills.

90 percent of the respondents believed in strong work ethics: very hard work, self-management, and reasonable job structure.

80 percent of the respondents agreed that there are many different options for employment and that there is more than one way to complete a job.

VISIONS OF THE FUTURE

100 percent of the respondents indicated that they were more optimistic about their future than they were one year ago.

90 percent of the respondents expected to work in Massachusetts.

80 percent of the respondents believed that pathways existed for them to solve problems and that they had the mental energy to pursue their goals.

80 percent visualized working with tools and 60 percent working with machinery.

Only 60 percent definitely agreed with the statement "I've been pretty successful in my life."

Less than 30 percent expected to use computers or office equipment on the job.

Massachusetts Reaction Form

LOCATION:			LAST 4 DIGITS OF SOCIAL	SECURITY NUMBER:	
	ve to the counselor/facilitator. result of your participation in thoppy	iis training works	10p, do you expect to be	better informed on the follo	owing topics?
1. Transferrable Skills	YES	NO	DON'T KNOW		
2. Job Specific Skills	YES	NO	DON'T KNOW		
3. Job Search Skills	YES	NO	DON'T KNOW		
4. Job Retention Skill	s YES	NO	DON'T KNOW		
	you have specific goals and expectations.	ctations of outcom	nes from this training?		•
I am here to					
I selected this training b	ecouse				
I hope to get from this t	training				
	t this point are				
	al occupation means				
I am more optimistic ab	out my future than I was one year ago.	YES	NO DON'	T KNOW	

Reaction Form

LOCA	ATION:		LA	ST 4 DIGITS OF SOCIAL SECURITY NUMBER:	
1. ln	two yeors, I will be working in			(nome of state)	
2.	A. In two years, I will be working in downtown			(nome of city) or	
	B. In two years, I will be working in on office pork		(name of sub	urb, commuting oreo).	
3.	A. In two years, I will be working outdoors.	YES	NO	DON'T KNOW	
	B. In two years, I will be working inside o building.	YES	NO	DON'T KNOW	
4. In	two years, I expect to be working the following hours: from _			to	
5.	A. In two yeors, I will be working with office equipment.	YES	NO	DON'T KNOW	
	B. In two years, I will be working with computer equipment.	YES	NO	DON'T KNOW	
	C. In two years, I will be working with mochinery.	YES	NO	DON'T KNOW	
	D. In two years, I will be working with tools.	YES	NO	DON'T KNOW	
6. In	two years, I will be performing physical tosks requiring the lifting	g of	pounds.	DON'T KNOW	
7. lr	two years, I will be keeping records ond writing reports.	YES	NO	DON'T KNOW	
8. lr	two years, I will be working with the following types of people: customers	YES	NO	DON'T KNOW	
	suppliers	YES	NO	DON'T KNOW	
	co-workers in a team	YES	NO	DON'T KNOW	
9.	In two years, I will be using the following skills on the job:				
10.	In two yeors, I expect to be eorning \$ per hour.			DON'T KNOW	
	, , , , , , , , , , , , , , , , , , , ,				
11.	In two years, I will be a member of a union. YES (name	of union)	NO	DON'T KNOW	

Reaction Form

LOCATION:	LAST 4 DIGITS OF SOCIAL SECURITY NUMBER:
LOCATION.	EAST 4 DIOTIS OF SOCIAL SECONT NOMBER.

Question Three: Do you agree or disagree with the following statements?

Please circle the response which most closely corresponds to your point of view.

Directions: Read each item corefully. Using the scale shown below, circle the number which best describes your belief.

- 1=Totally Disogree
- 2=Mostly Disogree
- 3=Disagree somewhot
- 4=Agree somewhat
- 5=Mostly Agree
- 6=Totally Agree

1.	. People who work very hord will be reworded.	DISAGREE	1	2	3	4	5	6	AGREE
2	Everyone hos mony different options for employment.	DISAGREE	1	2	3	4	5	6	AGREE
3	. Self-monogement is criticol to job success.	DISAGREE	1	2	3	4	5	6	AGREE
4	. A reosonoble omount of job structure is necessory.	DISAGREE	1	2	3	4	5	6	AGREE
5	. Women should eorn the some woge os comporobly quolified men.	DISAGREE	1	2	3	4	5	6	AGREE
6	. Individuols should be oble to work ot any occupation for which they ore quolified.	DISAGREE	1	2	3	4	5	6	AGREE
7	. Individuols should be oble to work in ony industry for which they are quolified.	DISAGREE	1	2	3	4	5	6	AGREE
8	. There is more thon one woy to complete o job.	DISAGREE	1	2	3	4	5	6	AGREE

Reaction Form

LOCATION:	LAST 4 DIGITS OF SOCIAL SECURITY NUMBER:
LOCATION.	LAST 4 DIGITS OF SOCIAL SECONTT NUMBER

Question Four: Do you agree or disagree with the following statements?

Please circle the response which most closely corresponds to your point of view.

Directions: Read each item carefully. Using the scale shown below, circle the number which best describes your belief.

- 1 = Definitely Disagree
- 2 = Mostly Disagree
- 3 = Mostly Agree
- 4 = Definitely Agree

1. I can think of many ways to get out of a jam.	DISAGREE	1	2	3	4	AGREE
2. I energetically pursue my goals	DISAGREE	1	2	3	4	AGREE
3. I am concerned about sexual harassment on the job.	DISAGREE	1	2	3	4	AGREE
4. There are lots of ways around any problem.	DISAGREE	1	2	3	4	AGREE
5. I am concerned about my future.	DISAGREE	1	2	3	4	AGREE
6. I can think of many ways to get the things in life that are important to me.	DISAGREE	1	2	3	4	AGREE
7. I worry about my income.	DISAGREE	1	2	3	4	AGREE
8. Even when others get discouraged, I know I can find a way to solve the problem	n. DISAGREE	1	2	3	4	AGREE
9. I've been pretty successful in my life.	DISAGREE	1	2	3	4	AGREE
10.1 meet most of the goals that I set for myself.	DISAGREE	1	2	3	4	AGREE

Massachusetts Response Form

Over one-fourth of the individuals enrolled in the Metro South/West (MSW) Service Delivery Area and one-third of the individuals enrolled in the North Central SDA had returned their Response Forms by June 1996. The participants responded by rating stotements on a six point scale: Totally Disagree, Mostly Disagree, Disagree Somewhat, Agree Somewhat, Mostly Agree, Totally Agree.

The Crafts, Repair and Technologies Program in South Suburban Boston

Seven participants in the Metro South / West SDA training program expressed their post-training job placement aspirations in response to statements and open ended questions. The Metro South/West respondents concurred that training helped workers find employment. Four participants strongly agreed with that statement. As a group, the respondents mostly agreed that training should lead to a full-time job as opposed to part-time work. Three women totally agreed with the statement and one somewhat disagreed. Their definitions of full-time employment ranged from thirty to eighty hours per week, with an average of thirty-five hours. This is slightly higher than the 1995 average American workweek of 34.5 hours. The women totally agreed that post-training wages should be odequate which they defined as entry pay ronging from \$6 to \$50 per hour, with an average hourly wage of \$9.40. [This hourly wage was somewhat lower than the 1995 average hourly wage of \$11.46 paid to United States workers.]

The MSW respondents definitely concurred that post-training employment should provide decent job benefits which they described as health insurance, pension, paid holidays, sick leove and vacotion leave. [Three-fourths of the displaced workers in Massachusetts between 1991 and 1994 received medical insurance of their new job upon reemployment. Only about sixty percent of the reemployed dislocated workers received pensions at their new jobs.] The respondents unanimously ogreed that the post-train-

ing job should offer acceptable working conditions. Their desired starting times ranged from 5 A.M. to 9:00 A.M.. The preferred quitting times extended from 11 A.M. to 6 P.M. None of the respondents expressed the desire for third shift work. The respondents totally affirmed that the post-training job should be within a reasonable commuting distance which ranged from zero to sixty miles, with an average commute of twenty miles. The commuting distance was higher than the nine miles averaged by the 7,750 reemployed Massachusetts Title III dislocated workers who had been laid off between January 1991 and September 1994.] Six of the seven respondents totally agreed that the post-training job should offer job security. Five defined job security as ranging from three to ten years with a mode of three years with the same employer. All respondents totally agreed that post-training employment should offer advancement opportunities including promotions and tuition reimbursement.

Women in Plastics in Central Massachusetts

Ten participants (one-third of the enrollees) from the North Central SDA training program responded to questions on job characteristics. The respondents mostly agreed that training helped workers obtain employment. Four women totally agreed with the statement and two disagreed somewhat. The respondents somewhat concurred that the training should lead to a full-time job. Two respondents totally ogreed with the statement and one woman mostly agreed. The respondents totally agreed that the posttraining job should offer full-time employment, with preferences ronging from twenty to sixty hours, with on average of thirty-eight hours per week. The respondents totally affirmed that the post-training job should pay an adequate wage with individual preferred entry wages ranging from \$8 to \$20 per hour. with a mode of \$8 and an average hourly wage of \$10. This woge was close to the \$10.24 paid in 1995 to plastics industry employees in the United States.

Respondents totally concurred with the statement that the post-training job should offer decent benefits. Benefits mentioned included health, long term disability, pension, 401K, vacation leave, and profit sharing. All respondents strongly felt that the post-training job should offer acceptable working conditions. Acceptable starting hours were defined as between 7:00 A.M. and 8:00 A.M. with quitting times between 3:00 P.M. to 6:00 P.M. Again, none of the women expressed a preference for third shift hours. The respondents were unanimous that the post-training employment should be within a reasonable commuting distance from their home. The women defined a reasonable commute as from zero to thirty-five miles. The respondents offered different definitions of job security. Seven women felt strongly that the job should offer employment security; whereas; three women only agreed somewhat about the need for job security. Four defined job security as at least ten years employment with the same employer with vested pension rights. Two felt that job security was at least three years employment with the same employer. Three other women described job security as the possession of skills and knowledge desired by many employers. [The over 18,000 Massachusetts dislocated workers between 1991 and 1994 had an average job tenure of almost eight years.] Nine women totally agreed with the statement that the post-training job should offer career advancement opportunities. One woman mostly disogreed with the statement. The nine who agreed with the statement included promotional opportunities and tuition reimbursement as part of their definition of career advancement. Seven women added in-service training and six noted cross-training.

PARTICIPANT'S COMMENTS

- I need o secure job ond to moke good money
- Get the best poy and benefits for me
- Advoncement opportunity is supervisory status
- Decent benefits include child core and poid moternity leove.

Response Form

LO	CATION:	_	_LASI	4 DIGITS O	f SOCIA	r zechkii.	A NOWR	ER:	
Q	Please circle the response which most closely corresponds to your Directions: Read each item carefully. Using the scale shown below 1=Totally Disagree 2=Mostly Disagree 3=Disagree somewhat 4=Agree somewhat 5=Mostly Agree 6=Totally Agree	point of view.	oer whic	h best desc	ribes you	ır belief.			
1.	Training helps workers find jobs Knowledge of and and	DISAGREE helps workers	1 find job	2 s.	3	4	5	6	AGREE
2.	Training should lead to a full-time job as opposed to part-time work.	DISAGREE	1	2	3	4	5	6	AGREE
3.	The post-training job should pay an adequate wage. An adequate wage ranges from \$00 per hour to \$00 hou	DISAGREE r.	1	2	3	4	5	6	AGREE
4.	The post-training job should offer decent job benefits. Decent job benefits include	DISAGREE	1	2	3	4	5	6	AGREE
5.	The post-training job should offer acceptable working conditions. Acceptable working hours are from A.M. to P.M.	DISAGREE	1	2	3	4	5	6	AGREE
6.	The post-training job should be within reasonable commuting distance. A reasonable commuting distance ranges from miles to miles A reasonable commute is on public transportationYES NO. A reasonable commute includes car poolingYES NO.						5 to trave	6 I.	AGREE
7.	The post-training job should offer job security. Job security is at least ten years employment with the same employer at least three years employment with the same employer union membership skills/knowledge desired by many employers	DISAGREE YES YES YES YES YES	1 _ NO; _ NO; _ NO; _ NO.	2	3	4	5	6	AGREE
8.	There is more than one way to complete a job. Advancement opportunities include promotion opportunitiesYESNO; in-service trainingYESNO; cross-trainingYESNO; Other (name)	DISAGREE NO;	1	2	3	4	5	6	AGREE



Recruitment

Recruitment

The import of the distinctive designs of each service delivery orea troining pragram an recruitment efforts was substantial.

The Crafts, Repair and Technologies Program in South Suburban Boston

The Metro South/West Service Delivery Area (SDA) offered customized, individualized referrals to institutions offering troining for nontroditional occupations. The Metro South/West recruitment design included participants from the Pothways Pragram, o vocotional, educational training program for women at the Mossochusetts Correctional Institution (MCI) in Framinghom, In addition, the SDA planned to recruit potential participants from the Department of Transitional Assistance (Public Welfore), the Displaced Homemokers Program and the Mossochusetts Rehobilitatian Commission. The Metro South/West troining pragram targeted women 22 years and alder whase ossessments demonstrated interest and aptitude for nantraditional troining. From the initial planning stoges, the Metra South/West SDA decided to use the assessment process os a recruitment tool. The program planned on expanded recruiting area including the surrounding service delivery oreos: South Caastal, Metro North and Brockton. The recruitment paol was expanded to nan-JTPA sources such as the Department of Education and the Department of Higher Education and their offiliated educational institutions. Responsibility for outreoch, pramotional efforts and recruitment was assigned to a full-time Nontroditional Cose Manager/Counselor.

The Nantroditional Cose Monoger/Counselor reviewed opplications of the Metro South/West Career Center ta identify opprapriate condidates such as women wha did nat want a desk jab, liked ta move around, created home crafts, and had good spatial perception (as identified by assessment). The case monager identified patential recruitment resources such as SDA intake, the Divisian of Employment and Training

(DET), other employment and troining ogencies, troining institutions, pasters, fliers, newsletters, and community networks. The cose manager infarmed cammunity bosed organizations such as the Southern Middlesex Opportunity Center and public ossistance affices about the training program. In June, the Case Monoger/Counselar met with odmissians recruiters of schools with nantraditional training programs such as New England School of Technology, Middlesex Community College, Boy Stote Schaal of Appliances, and Assabet, Keefe, Blue Hills, Tri-county, and Minutemon Regional Vocational Technical Schools to seek their ossistance in recruiting interested wamen who needed financial assistance for nontraditional training. Four women were identified os potential recruits, resulting in reverse referrols from the schools to the training SDORSOr.

The initial flier used for recruitment odvertised "If you ore o female 22 years ar alder, you may be eligible for troining in coreers such os outomotive technology. electrical opprenticeship, canstruction opprenticeship, corpentry, lob & electronic technologies, small opplionce repoir, and heoting, ventilation, oir-canditioning". The Division of Employment and Troining publicized the project in its affices autside of the Metro South/West Service Delivery Areo, but in close proximity to the SDA. A second flier, Women's Work, printed by the Division of Employment and Troining stoted: "Training is now available of no cost (if eligible) to women oge 22 and alder in occupations troditionally filled by men — and traditionally poying higher wages. Troin for o coreer os on electricion, plumber, outa mechanic, corpenter, lab technicion, ond opplionce repoirperson ... These ore just o few of the occupations that you can train for as part of Workforce of the Future: Women in Nontraditional Occupations. If you ore currently receiving Aid to Fomilies with Dependent Children or Unemplayment Insurance benefits, you may be eligible to cantinue receiving your benefits while you ore in troining".

Becouse of the planned individual referrols to specific nantroditional occupational training, the recruitment schedule was staggered. R.E.T.S. (Radia, Electronics

ond Television) Electronics School had open enrollment with closses starting on Mondays. Other proprietory institutions offered monthly openings. The majority of post-secandory schools had semester scheduling such as Minutemon Regional Vocational Technicol Schaal and Clark University, with most courses beginning in September ar January. The enrallment period extended from September, 1995 through September, 1996. Ten individuals were enralled in September and five in October of 1995. These fifteen participants attended troining programs at three institutions: Assobet Valley Regional Vocational Technical School, Boy Stote School of Appliances, and TAD Technical Institute, Four additional individuals enralled in Navember, ottending programs at Boy State School of Applionces, Clork University, International Telephone & Telegroph (ITT) Technical Institute, and TAD Technical Institute, increasing the number of porticiponts to nineteen. The next wave of enrollments begon in the winter of 1996 with spring semester odmissions. Two women enrolled in January and four in February. Additional enrollments followed at Quincy College, RETS, Clork University, and New England Troctor Troiler School. Twenty-seven recruits were enrolled by the end of April. In September 1996, the twenty-eighth porticipont entered Clork University.

Recruitment extended outside the Service Delivery Areo. Six women were recruited from contiguous service delivery oreos: Metro North Service Delivery Area (3), Southern Worcester Service Delivery Area (1), the Boston SDA (1) and the Brockton SDA (1). Twa enrollers travelled to the troining sites from outside the Greoter Boston oreo (Southern Essex and Lower Merrimock Service Delivery Areos in northeost Mossochusetts).

The most fruitful recruitment methods for the Metro South/West SDA were schoals, the public assistance ogency, and lacol employment service offices. Nine participants heard of the pragrom from admissions representatives at schools. Six registrants learned af the training pragrom through the welfore department. Fliers and staff at local employment service offices

attrocted the interest of five recruits. Three opplicants leorned of the program from relotives or friends and one from a department of corrections staff member. Accepted applicants did not cite displaced homemakers or vocational rehabilitation ogencies os sources of referrals.

In o July 1996 focus group, utilizing the forced relotionships of Thomos L. Greenboum (a leader in focus group research), Metro South/West participants were osked to choose an animal which best represented the recruiting agency. The women selected equolly a "bear" and a "lion". The women defined the beor as "powerful" and "they ... get the job done". The "lion" wos described os "oggressive, fost, forceful, ossertive, worm, compassionate, smort and cunning". When asked to name the color they ossocioted with the intake staff, the women selected "blue" which they described os "very soft (gentle), stately, organized with direct goals, beautiful, sincere" and os "red" defined os "exciting, bold, great, power booster, shorp, clear, and bright".

The Women in Plastics Program in North Central Massachusetts

In the North Centrol Service Delivery Areo, the industry-focused Women in Plostics progrom was designed as a twelve month intensive group training progrom for women who were interested in pursuing a plostics coreer. The goals for participants were transferrable skills and basic occupational competencies. In the grant technical proposal, the North Central SDA expressed its intention to recruit women aged 22 and older. The SDA proposal stated that the progrom would be marketed at a number of local employment, training and service agencies. The REB Executive Director anticipated referrals from the Deportment of Transitional Assistance (public welfare), the local Displaced Homemakers Progroms, the Mossachusetts Rehabilitation Commission, and related agencies.

The North Centrol Service Delivery Area (SDA) initioted recruitment in early May, 1995. Recruitment fliers and newspaper articles emphasized that the program was designed for women working in or seeking on entry-level position in the plastics industry. Clossified advertisements were placed in local newspopers including the Worcester Telegrom and the Fitchburg Sentinel. The clossified advertisement in the Worcester Sunday Telegram (August 27, 1995) stoted "women age 22 and older who are interested in entering or advoncing in plostics careers". In on orticle in the Fitchburg Sentinel (June 19, 1995), the Executive Director of the North Central Regional Employment Board identified the program as a "curriculum oimed of women who wont to enter the plostics field or who ore olreody employed in the plostics industry and wont to advance". The training program was further described as "classes in module form in order to ollow students to pick and choose the areas in which they wont to concentrate. Planned topics include quality control, purchosing ond sales, introduction to machine technology and mold polishing". In on article in the Boston Globe (May 9, 1995), the Executive Director explained "The Leominster program hos no income or residence requirements.... Appliconts need at least 10th grade reading level and ability to handle basic algebra". As of July 15, 1995. twenty women had expressed an interest in participating in the training progrom and were placed on a waiting list to be interviewed and assessed. Sixteen odditional women responded to the newspaper coverage. In September, fifty-four women attended on open house for the Women in Plostics Coreer program ot the Leominster Center for Technical Education. Of the thirty-seven who expressed continuing interest. thirty-one women were occepted ond the remoinder were ploced on o waiting list. An occeptonce letter from the Director of Customer Services of the North Centrol Regional Employment Board, was sent to each of the thirty-one occepted applicants. Letters of provisional acceptance with an enclosed syllabus and directions to the Leominster Center for Technical Educotion were sent to those on the waiting list. All of the accepted opplicants reported for troining.

Recruitment extended outside the Service Delivery Area. Four recruits commuted from outside the state: three from New Hampshire and one from Connecticut. Six women were recruited from the adjacent Southern Worcester Service Delivery Area. The Executive Assistant to the Regional Employment Board wrote a letter to the Director of the adjocent service delivery area informing him of the interest of six residents in the Women in Plostics Progrom and requesting his signature on an ottached permission form. These opplicants were occepted to the program. Recruitment fliers were distributed to community and employment and training agencies. Recruitment efforts included the successful solicitation of porticipants through employment and troining ogencies including the Service Delivery intoke (3) the stote welfore deportment (1) and the state employment service (1). The cooperation of area companies proved to be extremely effective in the recruitment of candidates. Of nine women recruited from plastics componies, five were introduced to the program by postings at their work site. Two recruits were informed of the training program by their human resources department and onother by a co-worker. One woman learned of the program from her sister who reod the newspoper odvertisement. Accepted opplicants did not cite displaced homemokers or vocational rehabilitation agencies as sources of referrals.

The most fruitful methods for the North Centrol SDA were newspoper ads and referrols from employers. The Plostics Technicion progrom began with thirty-one enrollees in October. 1995.

In Februory 1996, North Centrol SDA participants in o focus group when osked to select a representative onimal, (utilizing Thomos L. Greenbaum's forced relationships concepts) identified the recruiting agency os o "racehorse". The definitions offered by the women for "rocehorse" were "fost, disciplined, winning, gogetter, teacher, quick, go for it feeling". Asked to name the color they associated with the intoke staff, the women selected "pink" which they described os "feminine, soft, open to women, sweet, nice, classy, organized".

RECOMMENDATIONS

- **1.** Begin the recruitment at least six months in advance of the start of the program.
- Well in advance of the start of the training program, target employment and training agencies and educational institutions with ample fliers on nontraditional occupations and announcements of planned training.
- **3.** Well in advance of the start of the training program, saturate locations where women congregate (supermarkets, laundromats, beauty salons, fitness centers, etc.) with fliers on nontraditional occupations and announcements of planned training.
- **4.** Well in advance of the start of the training program, conduct informational seminars on nontraditional occupations at secondary schools and employment and training agencies. Include discussions of women's hesitance to participate in nontraditional training and the possible biases and attitudes of significant male influencers.
- 5. Well in advance of the start of the training program, identify women successfully employed in non-traditional occupations to recruit as potential speakers at open houses and career days and as instructors and guest lecturers.
- **6.** Before the training program starts, inform appropriate staff in local training agencies about the program and distribute adequate fliers.
- **7.** Before the training program starts, distribute fliers on nontraditional occupations to admissions offices of proprietary schools, community colleges, and colleges.
- **8.** Use employers as part of the recruitment process by soliciting referrals of women who need training for career advancement or whom the employer would hire if they had training. Contact existing employers in industries in which nontraditional occupations are prevalent.
- **9.** Survey applications to identify registrants who have expressed an interest in nontraditional occupations. Scan the existing applicant pool for women:
- who do not want a desk job
- · who like to move around
- who like hands on work (such as needle point,

- knitting, floral arranging, creating ornaments, sewing, cooking)
- who like tangible results
- **10.** Evaluate career assessment results to target women who may be interested in nontraditional occupations.
- 11. Utilize intake staff as educators about nontraditional occupations and distributors of information on nontraditional occupations.
- 12. Utilize employment and training agencies such as state employment services to identify women interested in nontraditional occupations and to develop an awareness of nontraditional occupations and training resources in job seekers.
- 13. Utilize praprietary schools and community colleges to identify individuals interested in training for nontraditional occupations without adequate financial resources. Develop reverse referrals from the schools to the training sponsor.
- 14. Utilize public assistance agencies and community based organizations to identify women interested in nontraditional occupations and to develop an awareness of nontraditional occupations and training resources.
- **15.** Use paid newspaper ads and newspaper articles to publicize training programs for nontraditional occupations.
- **16.** Provide capy and video clips to local television stations to broadcast the availability of training for nontraditional occupations as part of public service announcements.
- 17. Use public service announcements (copy and audio tape) and guest appearances on local radio stations to broadcast availability of training for nontraditional occupations.
- **18.** Recruit outside the service delivery area or local office area. Provide outreach to potential commuters within the labor market area and surrounding service delivery areas.
- **19.** Before the inception of the training program, conduct an open house at the training or recruitment site.

- 20. For selected nontraditional occupations, utilize the literature of professional and trade associations as part of the recruitment effort. Some associations have lists of members available for informational interviewing. Using women employed in nontraditional occupations as recruiters may not be the most viable option. The number of women employed in nontraditional occupations by geographic area is limited. Of those interested, relatively few are able to dedicate adequate time for recruitment due to work schedules, continuing education and family commitments.
- **21.** For future recruitments, conduct ongoing informational seminars on nontraditional occupations at secondary schools and employment and training agencies. Inform teachers and counselors about career related publications using photos and sketches of women working in nontraditional occupations such as the Young Person's Occupational Outlook Handbook and the Children's Dictionary of Occupations. Provide information on nontraditional occupations to be shared with parents.
- **22.** Develop marketing tools explaining the benefits of the program.

An Evaluation of the Massachusetts Wamen in Nantraditional Occupations Project

Recruitment Methods

ACTIVITY	NORTH CENTRAL SDA	METRO SOUTH/WEST SDA
Recruitment	Open House at Technical Center September 1 1 attended by 54 women	nontraditional presentation with every SDA orientation - interviewed 30 by 10/12/95
within SDA outside SDA	yes yes outside state: Troy,NH; Rindge, NH; Jaffrey, NH; Woodstock, CN	yes yes
Recruitment outreach		
through SDA intake	yes SDA client base, Title III, JTPA	case management counselor nontraditional presentation with every SDA orientation
through other agencies	Department of Transitional Assistance, Division of Employment and Training	Department of Transitional Assistance, Division of Employment and Training
through training institutions	по	marketed to all schools that offered nontraditional training and all schools which had contract with SDA
fliers	yes, computer generated at DET, SDA, LCTE, CBO, Network	"Attention: Women" "Women's Work"
newsletters	no	wrote about program in SDA newsletter
networking	referrals by other women	referrals by other women
newspaper articles	paid newspaper ads and newspaper articles: Fitchburg Sentinel, Worcester Telegram, Boston Globe, Worcester Business Journal	по
personal networks •	plastics employers school to career networks	community network
other	word of mouth all plastics employers - starting Nypro (2), TRW(2), TFX Medical (3), Cycles (1)	word of mouth
Most fruitful methods of recruitment		
Ranked one	response to newspaper ads (16)	referrals from schools (9)
Ranked two	referrals from employers (8)	welfare department (6)
Ranked three	referrals from Regional Employment Board/SDA (3), employment service office (1) other women (1), welfare (1)	employment service office (5), referrals from other women (3) corrections staff (1)



Retention

The distinctive designs af the training pragram of each service delivery area influenced the retentian strategies. Three arganizations with expertise in nantraditional emplayment for women partnered with each service delivery area to pravide a myriad of support services, including group and individual caunseling, mentoring, and assessment. The organizations included:

- The Industrial Services Program (ISP), the JTPA Title
 III quasi-independent agency for Massachusetts, designed a comprehensive curriculum titled "Chaosing a
 Living Wage" to address issues and barriers to choosing a nontraditional career.
- The Bay State Skills Corporation (BSSC), a quasipublic employment and training agency, pravided individual and graup suppart services. The BSSC designed a mentoring pragram for participants and actively participated in regional counselor/instructor training sessions.
- Women in the Building Trades (WIBT), a private non-profit agency pramoting wamen in nontraditional occupations, pravided a self-sustaining suppart group curriculum addressing sexual harassment prevention, assertiveness training, and health and safety issues. In addition, WIBT provided training to caunselars ta increase sensitivity to and awareness of the needs of wamen in nontraditional jabs and participated in regional and statewide counselor/instructar/employer training sessians.

Each agency was committed to developing in women the canfidence necessary to acquire and keep nontraditional jabs. All the partners agreed to collabarate in praviding training to front-line staff.

The Crafts, Repair and Technologies Program in South Suburban Boston

The Metro Sauth/West Service Delivery Area offered custamized, individualized referrals to institutions offering training in nontraditional occupations.

Income eligibility screening criteria targeted low-income earners, welfare recipients, the ecanamically disadvantaged, unemployment campensatian recipients, or JTPA eligible. A flier, **Women's Work**, distributed by the Divisian of Employment and Training stated: "If you are currently receiving Aid to Families with Dependent Children or Unemplayment Insurance benefits, you may be eligible to cantinue receiving your benefits while you are in training".

The Metro South/West SDA offered supportive services for Jab Training Partnership Act (JTPA) eligible enrallees. Financial supports included meal allowances (four dollars per training/educatian day); transpartatian reimbursement (22 cents a mile), and reimbursement far needed outfitting and essential equipment. The Nantraditianal Case Management Caunselor co-enralled eligible participants in JTPA and/or JOBS (public welfare emplayability program). The casts af the pragram were shared across several funding sources and agencies and total financial resaurces were augmented.

General screening criteria required applicants to be at least 22 years of age and to have completed a pre-application interview and the *Individual Services Strategy Form*. Also, the recruit's education and employment history were reviewed by the case manager.

The previously mentianed flier, **Women's Work**, described the range of services offered: "A wide range of supportive services is offered to ensure your success. We know that success requires more than just technical skills, so you'll find a netwark af suppart available thraughaut (and beyand) your training.

Warkshaps, jab caunseling and placement assistance will be affered by the Department of Emplayment and Training, alang with industry prafessianals. Workshops that help prepare you far any barriers you might expect when chaasing a nontraditional career, as well as practical information on balancing school, work and family will be offered by the Industrial Services Program. You'll also learn how to communicate effectively in the workplace. Workshops on sexual harassment prevention, assertiveness training and health and safety issues will be provided by Wamen in the Building Trades. Many wamen who are already warking in your chosen field have valunteered to be mentors. They will be there to answer your questians, give you practical advice, address your cancerns and share experiences they have had along the way to a rewarding, goad paying career. Your support network will be there to help you find a new job in your chasen field and will be there during your transition."

Fallowing the recruitment process, clients participated in an initial interest and aptitude assessment. Assessment activities included both formal testing and informal assessment through structured interviewing and activities. The proposal indicated that these assessment activities would create a stronger self awareness as well as a clearer identification of accupational interests.

The wamen underwent intensive assessment using the Systems for Assessment and Group Evaluatian (SAGE) at the Keefe Technical Schaal af the Southern Middlesex Regional Schaol to Career area. The SAGE, published by Train-Ease Corparation, matched aptitudes, educational level, work attitudes and temperoments of individuals to the job descriptions of 125,000 Dictionary of Occupational Titles. The assessment lasted three and a half hours and involved client participation in twenty-two subtest batteries. The SAGE provided the clients with learning style, vacational interest, and temperament prafiles, an aptitude evaluation and a listing of potential jobs by interest area. Twelve of the wamen were tested by mid-Octaber, 1995. The remainder were not formally

tested because they were sure of their interests and career goals. Over eighty percent of the participants were graduates of high school and four women (14% of the participants) had completed callege suggesting sufficient aptitude to camplete academic work.

All participants were tested with the Tests of Adult Basic Education (TABE), published by CTB McGraw Hill. The TABE measures basic skills of reading, mathematics, language and spelling narmally learned in grades two through twelve. The total administration time was faur haurs. The average math score was equivalent to the 10th grade level with a range fram the fifth to the second half of the twelfth grade. Language scores ranged from the sixth grade to the second half of the twelfth grade, with an average grade equivalent of the second half of the eleventh grade. The mode far bath math and languages was 12.9 - a grade equivalent of the second half of the twelfth grade.

The cantracting training institutions tested the women as part of the admissions pracess. The Assabet Valley Regianal Vacational Technical School administered an academic assessment test during the faurth week of each manth. Candidates for the Bay State School of Appliances were required to pass an entrance examination demonstrating the ability to read and write English. In the instance of the reverse referrals from the training institutions to the training sponsor, the women had already met the admission requirements.

Assessment included a structured interview and a structured self-assessment, including comprehensive research on the occupation to be pursued and school searches on institutions offering training for the selected occupation. Participants received guidance about local labor market conditions and job requirements and outlook. They researched informatian on available training programs and skill requirements. Each participant completed an occupational research sheet in The Training Proposal and an emplayability plan: Individual Services Strategy Part I (Initial), and Individual Services Strategy Part II (Assessment). By

December, all wamen who were enralled had campleted their labor market research an their chosen occupation.

Counseling and Supportive Services

The Nantraditianal Case Management Counselar also functioned as an adjustment counselar, warking with key staff at the training institutions. Individual counseling was provided by the case manager at the SDA Career Center and at the training institutions. Na farmal group counseling was provided by the training sponsor although the Deputy Director stated that she would have liked to offer the group feedback and support. The lagistical problem of enrallees attending different schools in widespread geographic area was tag great.

The relatively few women in a small number of selected nontraditional occupations created a challenge for the Bay State Skills Carparation's efforts to recruit female mentors in ample numbers. In addition, the staggered recruitment of the Metro South/West praject created a perceived late praject start-up. As early as June 1995, the Bay State Skills Carparation had expressed reservations concerning the difficult cambination of staggered enrollments and the need for sufficient numbers of participants to schedule the mentaring training. Efforts had not begun by the end of September, 1995.

In October, the Metro South/West Service Delivery Area contacted the contracted schools for assistance in recruiting mentors far the participants. A contact persan at each school was identified as the liaison for the Bay State Skills Corporation's mentor recruitment efforts. The schools continued their search for mentors thraugh November. In March, the nontraditional case manager reported: "There cantinues to be difficulty in recruiting women for the mentor program. We met with ... fram Bay State Skills Corporation to brainstorm an recruiting mentars. We suggested she call our school contacts. On March 19, we sent her a list of our clients, schools they are attending, and a

schaal cantact. She expressed difficulty in recruiting mentors".

During June, the Bay State Skills Corporation conducted mentar training and orientatian with twa mentors and four students fram TAD Technical Institute. The mentors agreed to call each student ta arrange individual meetings. By the end of June, three women (1 plumber, 2 auto bady repairers) were recruited as mentars, in collabaration with Women in the Building Trades. Each agreed to work with two ta three participants as proteges. By the end of July, two additional mentors from the netwark management field were trained and a meeting was scheduled with three mare students. Two women — a plumber and an enviranmental technician — were identified as possible mentors by the BSSC team.

In September, the BSSC reparted on its efforts to find additional mentars: "We have found mentors for thase participants who were interested. However, quite a few [participants] did not know about the mentoring companent of the project and felt that it was an imposition while athers said they just didn't think it was necessary and they had taa many other responsibilities at the time". The BSSC team cammented "Instituting a mentaring campanent at the Metro South/West project has been incredibly difficult. There are numerous reasons, many which were unavoidable. The primary problem, though, is one created by the design of the project. Because the participants were enrolled in a number of different training programs, in a variety of locations, not to mentian on different schedules, it was nearly impossible to hold meetings with them. We tried to reach them all by phone, but found that our calls were not being returned. We sent letters asking them to expect our calls, but most of the participants said they were unaware that the program had a mentoring camponent so felt uncomfortable speaking with us. Of course, in a previous repart we discussed the difficulties of trying to recruit mentors when we did not and could not know in advance which accupations the participants would choose, and because we had no

priar relationships with the prateges far wham we were expected to find mentars".

Educational remediation was limited to a referral to the General Educational Development Equivalency Diplama (GED) program at Assabet Valley Regional Vocational Technical School

Support Workshops

The ISP Caardinatar in her September repart cammented an the "difficulty in coardinatian and scheduling of warkshops with Metra Sauth/West SDA. Specific challenges given that participants began training in September and are attending training pragrams in three different lacatians. Discussians cantinue to arrive at a mutually agreeable dotes and locatian." Far example, the anly time the participants at TAD Technical Institute could meet tagether was Fridoy after 3:00 P.M.

At the end of October, the ISP began scheduling warkshaps to be given an site at the schools. In the BSSC's October repart, the coordinator noted "Caardinating warkshops for all the clients in training is an angaing chollenge as wamen are at various schools. Continued flexibility from all partners will ensure that oll warkshops will be given on location for most clients, and in a timely fashian." The ISP planned to start in Navember of TAD Technical Institute and Assabet Vacational School, A series of workshops were held between November and December. Three warkshaps were given by ISP staff to six participants at TAD Technical Institute on Cultural Barriers (11/ 03/95), The Balancing Act (11/17), Returning to School (including time and stress management, 11/ 21), and Industry Trends and Opportunities (labor morket research, 12/01) during November and early December. The Self Esteem workshap was offered ta eight participants of the Boy State School of Appliances on 11/16/95 and at Assabet Valley on 12/ 05/95. The Communications Strategies workshop was held of Assabet Valley Vocotional Technical School in December, In the December report, the ISP

nated "Ta date, the only raadblack we have faced is the linkage suppart services (warkshops). This is due to the vast territary and locations of the variety of schools providing the training." In the March report, ISP nated that the "ISP campleted three warkshops at Assabet Vacational School on labor market research, cultural barriers, and cammunication strategy". Sixteen participants benefited from the warkshops. Enrallers at ITT Technical Institute, Quincy College, RETS, Minuteman Vacational Technical School, and Clark University did nat participate in ISP sponsored warkshops.

Women in the Building Trades (WIBT) scheduled warkshaps an sexual harassment, health and safety issues, and assertiveness training at Assabet Vocatianal Technical School, TAD Technical Institute, and the Bay State School of Appliances. In November, Wamen in the Building Trades presented the three warkshaps (Sexual Horassment, Assertiveness, and Health and Safety Issues) to the five participants at the Boy State School of Appliances. The workshaps were held at Assabet Valley on December 5 and 7, 1995. The counselors and instructors at Assabet audited these warkshaps. The warkshaps at TAD Technical Institute were scheduled on January 12, 1996. Unfortunately, the TAD Technical Institute canceled this warkshop because of inclement weather. It was rescheduled in February. In the March report, the SDA reported that seven wamen campleted the workshops at TAD Technical Institute. A total of seventeen participants benefited from the WIBT sponsored workshaps.

Supportive Training Services

To prepare participants far returning to school, the Metro Sauth/West SDA provided as part of its assessment pracess an octivity on school explaration, requiring the completian of a training worksheet in *The Training Prapasal*. [The Metro South/West ETA Warkforce Development Career Center offered "Adults Returning to the Classroam, Preparing for Training" to oll participants.] The hands-on experiences and tangible results within the skill training were viewed by the cose manager as critical ta retaining participants.

The support of the instructors was also important to retention. In July 1996, the Metro Sauth/West SDA participants identified the training instructors as the calar "blue" which they described as "mainstream, ordinary, stately and organized, saft, gentle, sees samething good in everything." Additional adjectives used to describe the instructors were "supportive, easy-going, knawing, helpful, knawledgeable, intellectual, talented, experienced". On-site work experience were limited to three wamen training at Assobet

Warmen in the Building Trades developed training for program instructors providing training to the participants in nontraditional programs.

Community Supportive Services and Referrals

Welfare recipients (dual enrallees) were pravided with meal allowances, transportation expenses and needed tools and supplies through the Department of Tronsitional Assistance.

The Metra South/West Coreer Center's Resource Library provided directories of supportive services, such as the *Human Services Yellaw Pages*, published by Gearge T. Holl, and the SDA developed **Support Services Contact Information**, a listing of local agencies and associations providing counseling, support graups, emergency and general assistance, health care, financial aid, housing assistance, utilities assistance, legal services, food assistance, clathing, tuition assistance, and small business start-up assistance.

Client Tracking Systems

Case management was provided by the case manager who maintained folders on each participant containing enrollment dates, the school attended, the type of troining pursued, anticipated completian date and follow-up visit reparts.

Women in Plastics, North Central Service Delivery Area

Screening

In the North Central Service Delivery Area, the screening of applicants for enrollment included income eligibility screening criteria:

- either unemployed (no wage income, on public assistance or receiving unemployment compensation) or low to moderate income, including both JTPA and non-JTPA eliqible
- either unemployed seeking a position, employed part-time or employed full-time in low skill, low pay occupations in the plastics industry. In the grant technical proposal, the North Central SDA expressed its intention to recruit women aged 22 and older. The Executive Director of the Regional Employment Board sought motivated women with at least a tenth grade reading level, the ability to perform basic algebra, age 22 and older, and able to commute. Each recruit was interviewed by the REB Executive Director. Recruits discussed their work history, prior classroom or on-the-job training, current employment and education goals, and motivation. One women who was unable to arrange day care was not accepted.

A classified advertisement in the Worcester Sunday Telegram (August 27, 1995) stipulated "women age 22 and older who are interested in entering or advancing in plastics careers". An article in the Fitchburg Sentinel (June 19, 1995) stated that "The program will include a mentor component, pairing students with a woman already employed in the plastics industry." An additional article by a career columnist in the Boston Globe (May 9, 1995) quoted the REB Executive Director: "The Leominster program has no income or residence requirements.... Applicants need at least 10th grade reading level and ability to handle basic algebra".

Assessment

The North Central SDA planned an assessment conducted by a collaborative committee consisting of

members of the Leominster Technical School, the service delivery area, and the private-sector Plastics Council. It was postulated that participants would undergo testing in academic skills to gauge their level of the skills needed to enter the program. If educational remediation was needed, the participants would be provided with training in basic math, algebra, and geometry at the Leominster Technical School.

A formal interview was conducted by the REB Director. Participants discussed training and employment goals as well as interest areas. Previous education, employment and experience were reviewed. The participants were primarily self-selected. Interest or aptitude testing and academic testing (example: TABE) were not provided by the training sponsor. The REB Executive Director attempted unsuccessfully to solicit funds to contract SAGE testing. Ninety percent of the participants had completed high school.

In the Third Phase, assessment was conducted by the institutions offering the training as part of the admission process. At Mount Wachusett Community College, the skills of incoming students were assessed in the areas of reading, writing, and mathematics to determine appropriate course placement. For matriculated students at Assumption College, Scholastic Aptitude Test and Achievement Test scores were required.

Counseling and Supportive Services

The Women in Plastics Careers program was designed as an industry-based group training experience and did not provide formal individual counseling. However, informal individual sessions were conducted by the REB Executive Director and the BSSC Coordinator. In the September report, the REB Director reported that "Individual counseling will be provided by Bay State Skills. Appointments have been scheduled to begin developing an individual plan for each participant." Each woman enrolled in the program received guidance from the BSSC Coordinator in developing a plan for becoming employed.

After approximately nine months of training, the Program Advisory Committee was to set up mentoring,

job shadowing, and other work-site experiences for the participants at member companies of the Plastics Council. In May, 1995 the REB Executive Director wrote a letter to plastics industry employers soliciting mentors for women in the plastics career program. In her request, she outlined her requirements.

- Meet with fellow mentors late in the summer.
- Meet with the class to give a brief overview of their jobs in plastics.
- Meet and pair with a student of similar abilities, interests, and goals.
- Be available for phone support of the student partner.
- Attend a follow-up meeting with the student partner.
- At employer's discretion, have the partner visit the mentor's company for a period of time to "shadow" the mentor on the job.

By mid-July, the REB Executive Director reported: "As a result [of the marketing letter on ... the mentoring component), a representative of one prominent firm, NYPRO in Clinton, has recruited seven women who want to be mentors. One is the head of safety for this large, multinational firm, and another is a master mold maker. Another promising connection is with a plastics firm in New Hampshire, where the general manager is a woman who wants to be part of the mentoring program. Altogether we now have 27 women who have expressed [an] interest in mentoring." In her September 1995 report, the Executive Director stated "Approximately twenty women have expressed interest in being mentors. Bay State Skills is making preparations for the mentor training. A training orientation is scheduled for October 25". The REB Director stated to the Bay State Skills Corporation on September 29, 1995 that "Women who are already working at jobs they really like in the industry will be serving as mentors. They will receive training in the Principles and Practices of Mentoring from the Bay State Skills Corporation specialists." By the end of 1995, the BSSC had completed mentor identification and begun recruitment. The BSSC Coordinator reported that she had designed

the mentar training curriculum and cantacted each of the thirty prospective mentors.

In March 1996, the REB Director reflected that "Recruiting mentars turned aut to be much more difficult thon we anticipated. Initial interest as determined by the survey was very high among wamen in the plastics industry, but actually finding women who could give up significant time to attend mentar training sessions and meet with the program participants was challenging because like most successful women in 1996 these women are extraordinarily busy. However, the [BSSC coordinators] modified the mentoring plan from one-on-one to one-on-three."

In March, the Women in Plastics participants met with the recruited mentors and participated in a training exercise designed by BSSC to introduce mentoring cancepts and methods. The mentors were trained in mentaring and group facilitation through instruction and group exercises. A mentor-protege reception was held at which all attendees completed collages to introduce themselves and received a journal to recard their experiences. The BSSC Coordinator reported: "[We] troined eight mentors for the wamen in plastics and held orientation for proteges. Held reception for mentors and proteges to meet to get to know each ather". She observed "We were unable to recruit enough mentors far one-to-one relationship with the Women in Plastics. So after consulting the eight recruited mentors, we changed to mentor groups in which the mentor has three or four proteges. One mentor did drop aut [af the mentoring program] it seems because of the change".

In July, 1996, the BSSC Coordinator cammented "Finding mentors is always o difficult proposition, particularly when the praject is not tied to a specific employer (emplayers can offer on-site mentors recognition and status for participation in internal projects). For nontroditional occupations the difficulty is enormaus. By definition, 25% or fewer employees in a selected field ore women. Through our cantocts (we've spoken with about 125 warmen in nontrad[itionol] jobs so for), it appears that the majority

of wamen in these non-trad fields are in the 20 to 40 age range. They often express an interest in future invalvement with our project but far a variety of reasans are unable to make a commitment at this time. Reasons run a typical wark/family range: pregnancy, young children at hame, single parenting respansibilities, caring for on aging parent. Another camman reason is that they are involved in a further education program that takes up much of their atherwise spare time. We've also found that there are some miscanceptians out there about what a mentar is. Apparently there have been numeraus ar well-publicized prajects in which mentors were expected to find their protege a job. Others in which mentors were expected to act as therapists. At any rate there is a general reluctance to become involved with mentaring as it is perceived. We've been working hard to change the perception. One further point, many potential mentars — thase we've found via networking, have asked if there were some remuneration for their participation. They've painted out that there are some expenses invalved. They do not live right next door to the proteges so they will have to travel, for example. In all but ane case, my negotive response sent them packing. The project Advisory Board did decide to open up recruitment to include men in these occupations. The few men that respanded, though, seemed apprehensive working with women. They also didn't feel that they could address the issues facing women entering the field."

At the statewide Job Training Partnership Act and Employment Service canference in February, 1996, the BSSC Coordinator noted there were miscanceptions concerning the activities of mentars. She cautioned that mentars were NOT respansible far:

- placing the pratege in a jab,
- providing o job reference for the protege,
- providing skill instruction, and
- caunseling the protege on personal issues.

A mentor was described as on empathic individual wha:

• pravides current infarmatian on the warkplace based on first hond knowledge,

- helps the protege to refine career goals and strategies,
- supports the pratege's aspirations,
- caaches the pratege to clarify career problems and to find answers to career questions, and
- pravides feedback, bath pasitive and negative, that will aid the pratege's career progress.

In September, the BSSC Coardinator further reflected on the mentoring program: "We knew which industry [plastics] to target for recruitment of mentors and had the help of the pragram's advisary board to do this. We knew the proteges reasonably well and could pair them with mentors that suited their interests and personalities. The participants were well prepared to be involved in the mentaring companent and laoked forward to it. And a facility was always available to us to hald meetings with either mentars or proteges or both."

The Center for Women, Wark, and Family of the BSSC completed the *Handbook on Mentoring Programs* with chapters on Managing Your Mentaring Pragram, Recruiting, Inviting Mentors on Board, Making Lemanode, Motching, and the Core of Mentors.

In an orticle by a coreer specialist in the Boston Globe (Octaber 1, 1996), Janice Pollock, mentor and Human Resources Manager at TRW Fasteners (a major manufacturer of precision steel injection molds for the plastics industry) was quoted: " [The participant] and I have a nice, easy-going relationship. She really wants to da an excellent job. After a month or so, she became less nervous, learned to take intricate, expensive molds apart." Amy Ullman, a mentar from Win-Tech International (a manufacturer of packaging materials far the plastics industry), in June stated "The gals that are involved in [mentoring] are really motivated and they're excited about being a part of it and helping these other people up." Janice Pollock commented "We went into the classes. Actually I spoke one night and tolked a little bit about careers in manufacturing for wamen, what a job description for some of thase jabs would entail, and then the salary

range and what they could expect aut there and also what the difficulties might be." The protege cammented "Withaut her, I wauldn't be here ... really I wauldn't. She's been a great help. She's helped me through my difficulties. It's great."

Seven mentors were recruited by BSSC, resulting in a ratio of one mentor to faur participants. Three wamen: Janice Pallock, TRW, Amy Ullman, Win-Tech, and Paula Danato, Palaroid, provided active mentaring and agreed ta participate either in the video, High Wage, High Skill, High Achievement or in the statewide conference on nontraditional accupations, Higher Skills, Higher Wages, Higher Achievement, held at Holy Cross College, Worcester on October 8, 1996.

Educational remediation was provided to one enrallee through referral to an algebra course.

Role madels were actively introduced. The overview of the plastics industry was provided by three women employed by TRW Company Fasteners Divisian. The sessian an Quality Cantrol was presented by three wamen: two emplayed by TRW and one by TFX, Inc. Six wamen made a presentation on accupations in the plastics industry focusing on sales/office/camputer/warehousing/inventary. Two were emplayed at Computemps, ane at Res-Tech Corparation (a producer of custom precisian injection molding), ane at Quality Resins (a manufacturer of plastics products), and two at TRW. The lecturers at the Plastics Museum and another at Plastican (a manufacturer of plastic pails, drums, recycling bins, milk crates and coalers) were women. The instructor for Introductory Computers at the Leominster Center far Technical Education was female.

Women role models in the plastics industry played an important part in planning and publicizing the project. Two were referred to in the *Boston Globe* report (May 9, 1995) an the praject. Alison Von Eidersteine (Quality Control Manager, Tech Pratype Plastic Parts) pravided insight into the quality control environment: "The work is repetitive, samething women do better

than men, involves lats of interaction with custamers, irate at times, and with people on the floor, helping them restructure what they da. It's rewarding and important to give people infarmation they need to get the job done right.". In the same article, Joan Solheim, General Manager of Santin Engineering (a plastics product development company) stated "women's gaad arganizational skills are very useful in plastics pracessing, where you must think on four or five planes at ance."

The mentors and role models had an indirect impact on the job search of the participants. One participant found employment at NYPRO as a machine aperator and another was promated at Res-Tech ta a division supervisor. Two participants with direct intervention of the rale models gained employment at TRW; ane as a mald polishing mechanic and the other as a sorter.

Support Workshops

Seventeen hours of group support warkshops were presented to the thirty-one women enrolled in the Wamen in Plastics pragram. By the end of June. 1995 the ISP Coordinator had completed a review of the curriculum and resources for the workshop. "Chaasing a Living Wage". Adaptations to several sections began. Proposed outlines for the NTO workshops were developed and distributed far review. The proposed topics of the six session "Expanded Harizons" curriculum included Team Building, Cultural Barriers, Self-Esteem, Industry Trends and Future Oppartunities, Reducing Math and Science Anxiety, Sexual Harassment, Communication Strategies, and Building and Maintaining Support Systems. The authars were cancerned about the effectiveness of delivering the program to groups of less than five women.

The group support workshops were integrated within the industry Career Path camponent scheduled an Tuesdays and Thursdays fram 4:00 to 6:30 P.M. and were to be conducted by the ISP and BSSC.

Two workshops were affered in September, 1995. Women in the Workplace (Who We Are and Why We're Here) was affered an September 26 and Team Building an September 28, 1995. The twenty-six attendees in the Warmen in the Workplace warkshap participated in activities including an examination of Dick and Jane Readers for the titles of occupations held by adult males and females, a true and false quiz an facts about warkers in the United States. brainstorming of verbs representing personal qualities and transferable skills, and a review of eight great reasons to work in nontraditional accupations. In the Team Building session, the twenty-six attendees practiced team cammunication and analyzed a bad team exercise. The Warnen in the Workplace and Team Building workshops were very well received. In the September repart, the ISP commented favorably on the "high degree of callaboration with the North Central R.E.B. Organizational and coordination efforts between the REB Coordinator and Learninster Vocational Technical School allowed far smaath integration of ISP workshops into training curriculum".

Twenty-seven wamen attended the Cultural Barriers in the Workplace session (October 10) which included an "I am" exercise and a review of the 1964 Civil Rights Act. The Self-Esteem workshop (October 17) addressed assertiveness and included an exercise in which the twenty-seven attenders identified personal role models. The workshap an Industry Trends and Opportunities was held October 24. The twenty-six participants were taught about labor market informatian and career information resources. At the Communication Strategies for the Workplace workshop on November 1, the twenty-six attendees learned about verbal and nonverbal communication techniques. By the end of Navember, the Industrial Services Pragram had presented six warkshaps: Women in the Workplace, Team Building, Cultural Barriers, Self-Esteem, Industry Trends and Opportunities, and Communications Strategies for the Warkplace. Reducing Math and Science Anxiety and Building and Maintaining Support systems were not presented.

A Career Development warkshop was presented on November 14th and Navember 21 by the BSSC. Participants developed individual employability plans. For individuals nat taking academic caurses, manthly fallow-up meetings were held at the Learninster Technical Center on Thursday evenings from 4:00 to 6:30 P.M from February to June. These sessions included guest speakers and presentations on resume preparation, job development, and performance appraisals. The wamen met during this period to share experiences and to learn from various specialists.

Supportive Training Services

An arientation to the skill training was pravided an September 19th and 20th by industry representatives from NYPRO., Mark Technical Mald, TRW, and Stan-Cast (a manufacturer of steel injection and blow malds). Field trips were canducted to the Plastics Museum (October 12, 1995) and to Plastican (November 16). The hands-on experiences, tangible results, and supportive instructors were essential to the high retention rate. In a February 1996 focus group (utilizing the forced relationships of Thomas L. Greenbaum, a leader in focus group research) when the North Central participants were asked to name the color they associated with the training institution staff, they selected "red" and "pink". The woman described "red" as "cheery, warm, vibrant, alive, full of life, strong, energetic, bright, calarful, outgaing. very bubbly " and "pink " described as "feminine. soft, open to women, nice, fun, uplifting, encouraging".

In June, two instructors at Leominster Center for Technical Education explained the value of hands-on experience. Steve McNamara, the machine shop instructor, commented "You could see the excitement. The praject they made was a hammer. They could not believe that they actually made it from a raw piece of stock to a finished product. They were so happy when they left here. ... to see them excited about something that they did that they couldn't believe they would do". He cantinued "A lat of them showed that they wanted to learn by staying after 7-8 o'clack at night to finish up projects. They can succeed". Ray Vallee, the computer assisted design instructor, noted "Their second night they were able to do their first

drawing and they applauded their first drawing. So they had an actual part that they had visually dane".

The critical interplay gained in the field experience was expressed by one participant (receiving training in mold polishing at TRW Fasteners) and her on-the-jab supervisar. The participant stated "Hank, he's my trainer, but I refer to him as my cammander-in-chief, because he is a serious man about his jab. And, he has a humarous side to him when the work is over. And that's good for me. But when we work he teaches me a whale lat of things." Hank Serafini, her supervisar, added "I knew she could do the work. I wanted to see her succeed. I felt my time wasn't being wasted. I knew she would succeed in this".

By mid-December, the participants were encouraged to research the scheduled courses at schools and calleges which they would like to take the following semesters.

Community Services and Referrals

The Department of Transitianal Assistance (public welfare) provided transportation and day care allowances to eligible participants. An SDA staff member, autstationed at the Department of Transitional Assistance, pravided coordination.

The participants established their own support systems including babysitting referrals and carpooling.

Client Tracking Systems

Case management and manitoring were pravided by the REB Director and an assigned staff member using case folders. The initial opplication and information about enrallment dates, the school selected, the type of training pursued, estimated campletion dates, tuition payment records and follow-up reports were maintained in the folders. A client tracking system included the REB-designed **Positive Outcome Report** and the **Course and Placement Followup Letter.**

RECOMMENDATIONS

- 1. Be honest in the recruitment process. Deliver what you pramise.
- 2. Screen applicants far interest (tested or expressed), aptitude (tested ar demonstrated), and appropriate language and mathematical development.
- **3.** Befare the start of the pragram, require labor market research so that participants have realistic expectations and a clear vision of career paths.
- **4.** Pravide group sacial and emotional support activities, particularly self-awareness, self-esteem building, and assertiveness.
- 5. Provide a case manager/caunselar/ligisan.
- **6.** Pravide arientatian and technical assistance on gender equity and sexual harassment prevention to instructors
- **7.** Provide training to instructors af adult learners an interactive and hands-on education. Encourage instructors to invite learners to share their experiences and views
- **8.** Offer orientation and technical assistance on gender equity and sexual harassment prevention to direct supervisors at companies.
- **9.** Pravide exposure ta wamen rale madels who have succeeded in nantraditional occupations by using them as industry instructors and quest speakers.
- 10. Pravide training to patential mentors.
- **11.** Create a social milieu (restaurant, reception at women's organization or club, caffee klatsches) for mentor-protege arientation.
- 12. Provide active mentoring.
- **13.** Create a directory of profiles of women working in nantraditional occupations. Include name, job title, emplayer, telephone, comments/advice and availability for career activities.
- **14.** Integrate hands-on training, demanstrations and internships as part of the training curriculum.
- **15.** Provide a transition to training through adult education arientation ar advance arientation to an academic institution.
- **16.** Provide a transition to job placement through labar market research and a job search session. Provide current information on career pathways and the wages of experienced workers far the selected

nontraditional accupation for which training is provided.

- 17. Pravide monthly follow-up meetings for the unplaced.
- **18.** Communicate frequently with training institution instructors on participant's progress.
- 19. In advance of the start of the training, identify needed support services such as transpartation, child care/elder care, health care and basic support stipends. Collaborate with public assistance and unemplayment insurance praviders.
- **20.** In advance of the start of training, develop a list of suppartive services such as child care and public transpartation providers.
- **21.** Canduct face-to-face fallow-up visits at training and employment sites.
- **22.** Became familiar with agencies and arganizations offering support services. Develop a referral network.
- **23.** Pravide wamen a written referral and directions to relevant agency to enable them to access support services.
- **24.** Identify assessment instruments appropriate for the customers information needs.

The Participants' Perspectives

The Workshop Evaluation Form

One hundred percent of the individuals who participated in the North Central SDA workshops returned their Workshop Evaluation Forms by April 1996. The workshops were rated on a Workshop Evaluation Form prepared by the Industrial Services Program, the deliverer of the workshop. The participants responded by rating statements on a five point scale: High, Somewhat High, Average, Somewhat Low, Low.

Seven workshops were conducted by the Industrial Services Program for the thirty participants of the North Central Service Delivery Area between September 1995 and April 1996. The average number of attenders at each session was 26.3 individuals, a participation rate of eighty-seven percent. The workshops were titled "Women in the Workplace", "Team Building", "Cultural Barriers", "Self Esteem", "Labor Market Research", "Communication Strategies for the Work Place", and "Communication Skills Review".

The mean rating of the overall effectiveness of the workshop content was 4.8. On the five point scale, the mean rating of the effectiveness of the instructor was 4.9. Gain in knowledge or skill received a rating of 4.6. The mean evaluation of the usefulness of materials was rated 4.7.

The effectiveness of group feedback and interaction is reflected in the following participants' statements:

"Knowing all these women ore thinking the some os I do".

"People pointing aut your better points",

"Tought me to listen and work with ather peaple, and ... get olong".

The participants commented on their increased selfesteem:

"Storting to build self-esteem",

"Mode me go home feeling good",

"As olwoys I leove [these sessions] with more sense of worth".

"Being proud to be o womon",

"I feel more canfident obout myself",

"I feel more confident obout myself going out ond finding whot will moke me hoppy", and

"I will be o problem solver".

Participants noted increased self awareness:

"Mode me understond more obout myself and my gool",

"Leorned the things stopping me ...",

"[Leorned] how to get whot you wont ond not sound like a bully", and

"I will think more of my body longuoge when I am ongry".

In summary, the participants in the workshops reported increased satisfaction with group feedback, increased self esteem, and increased self awareness.

Participants commented favorably on the process:

"[Keeping] the journal is a great idea", "The bod team experience exercise [was valuable]", "The 'I om ..." exercise" [was useful], "'Listing women we admire and why was good", "demonstration of low esteem - and then showing a morked physical change with self esteem [was helpful]", "Looking at the newspapers, evaluating more than just the want ods", "How to read a newspaper to get more out of it", and "the 5 keys of mostering change".

The instructor of the workshops was an active role model who fulfilled an unofficial mentoring role. In conversation and in written comments, the participants expressed admiration for her style and empathy. They were inspired by her enthusiasm and positive attitude. Comments included:

"Very effective style, keeps your interest".

"A style oll her own".

"Would be hoppy to ottend ony session she presents".

"Great to listen to, easy to learn fram".

"A pleosure".

"Very interesting".

"Serious/with o good sense of humor".

"Very up and enthusiastic person".

"She moves people's minds, everybody porticipotes with her direction".

"She came through to me".

"She really makes you want to participate in the class".

"Perfect ottitude - ottitude is everything".

"She has really mode me toke a look at the future in a positive way".

"I like her. She's o greot teocher".

Workshop Evaluation

Workshop Title			Dat	e		
Workshop Leader(s)	ation					
Please rate each of the following on a scale from 1 to 5. Your input is important	nt for us to 1	make yo	ur workshop	s as bene	ficial and enjoyable as we	e can.
	HIGH		AVER	AGE	LOW	
1. Overall effectiveness of content	5	4	3	2	1	
Comments:						
		· · · · ·				-
	HIGH		AVER		LOW	
2. Effectiveness of instructor	5	4	3	2	1	
Comments:						
	HIGH		AVEF	AGE	LOW	-
3. Your gain in knowledge or skill	5	4	3	2	1	
Comments:						
	HIGH		AVER	AGE	LOW	
4. Usefulness of materials	5	4	3	2	1	
Comments:					A	
5. What was the most important/useful part of the workshop?						-
6. What was the least important/useful part of the workshop?						_
7. What was not included that would have been useful?						_
8. What additional workshops/topics would interest you?						_

The Massachusetts Response Form

Over one-fourth of the individuals enrolled in the Metro Sauth/West Service Delivery Area and one-third of the individuals enrolled in the North Central SDA returned their *Response Forms* by June 1996. The participants responded by rating statements on a five paint scale: Very Dissatisfied, Somewhat Dissatisfied, Neither Satisfied Nor Dissatisfied, Somewhat Satisfied, Very Satisfied.

Seventy percent of the respondents in the Metro South/West SDA training program were very satisfied with the first phase of the training program, with the remainder expressing high satisfaction. All would recammend the training program to a friend. Every respondent was very satisfied with the opportunity for class participation. Eighty-five percent of the respondents rated the courtesy, knowledge and responsiveness of the training staff as very satisfactory. The clarity of the orientation and the supportive services were evaluated as very satisfactory by eighty-five percent of the respondents. Seventy percent of the respondents described the trainers, the appearance and cleanliness af the training facility and the training materials as very satisfactory.

All respondents from the North Central SDA training program were somewhat satisfied with the program, with ten percent indicating they were very satisfied with the first phase of the program. The remainder expressed high satisfaction. Three-quarters of the respondents would definitely recommend the training program to a friend. The remainder would probably recommend the training program to a friend.

Eighty percent of the respandents in the North Central SDA rated the appearance and cleanliness of the training facility and the opportunity for class participation as very satisfactory. The courtesy of the training staff was faund to be very satisfactory by seventy percent of the respondents. Fifty percent of the respondents rated the knowledge and the responsiveness of the training staff as very satisfactory. The remaining participants evaluated these camponents as somewhat satisfactory. Both trainers and training materials were rated as samewhat satisfactory. Twenty percent of the respondents rated arientation and supportive services as very satisfactory.

The participants' expectations and the design of the training programs are reflected in the completed self-evaluations of the first phase of training.

All Metro South/West SDA participants who responded to the *Reaction Form* expected to receive job specific training. Comments of the Metro South/West SDA participants on the *Response Form* noted that the "lecture and shop (were) most valuable to me", "the portion of the training most valuable to me was self-esteem", "the most valuable training (was) hands on theory", and "the shop-time, hands-on training is very important to me". Comments on supportive services included "the counselor/financial help was most useful to me" and "Everyone was helpful".

The Metro South/West Service Delivery Area training program emphasized individual referrals to specific occupational training shortly after enrollment in the program. Small group supportive workshops were offered at the training institution sites. A case manager was assigned specifically to the program and followed each participant individually.

Seventy-five percent of the North Central SDA participants who responded to the *Reaction Form* in October, 1995 expected to receive job specific training.

Sixty percent of the North Central SDA respondents answered "no" to Question 1 on the *Response Form*. "Has the training provided you with the knowledge and skills to do the key job functions in the occupation which you selected?". Twa women (twenty percent of the respondents) added "not yet-don't know yet" and "I haven't selected yet". Among the recommendations for change were "get into individual courses sooner" and "put training (CAD, machine shop, and computers) first to expose us to those fields".

The North Central Service Delivery Area training program was designed as a group expasure to the plastics industry through a series of speakers and rotation through mald palishing, machine shap, and computer

assisted design between September and December, 1995. Group supportive services were provided in the evenings at a central location by the Industrial Services Program coordinator.

In summary, seventy percent of the respondents in the Metro South/West SDA and ten percent of the North Central SDA respondents were very satisfied with the first phase of the training.

COMMENTS BY PARTICIPANTS, NORTH CENTRAL SDA

The progrom changed my life 100%. God bless the REB Director.

- The speokers not directly reloted to the plostics field were leost voluble to me.
- The self esteem workshops were most voluoble to me.
- The mentor os nice os she wos, she wos no help.
- Generol troining, teom building, self-esteem ; which con be used ot ony job (most voluoble)
- The mentoring, I never heard from her [least valuable].

COMMENTS BY PARTICIPANTS, METRO SOUTH/WEST SDA

Should be more occountability for all students attendance and grades.

- The counselor/finoncial help was most useful to me.
- The portion of the troining most voluoble to me was self-esteem.
- Everyone was helpful.
- One recommended change: Create a mondatory orientation/workshop in addition to the ones that olready exist for the men dominated facilities to give them oworeness to have respect for the apposite sex. Example: How disgusting a female student might think it is to step in their spot on the floor; hear their disgusting comments on how they think a certain noise is the same as a sexual act and their swearing or where they would hang a "stick up" on a woman. specifically male students NOT the instructors.
- One recommended change to improve this training: the idea that the male students know that JTPA gives the women of the program money.

Response Form

LOCATION: _	LAST 4 DIGITS OF SOCIAL SECURITY NUMBER:	
-------------	--	--

Please complete and give to the counselor/facilitator.

Question One: During the first phase of this training program, how satisfied were you with the following: (Indicate all that apply) Do you agree or disagree with the following statements?

Directions: Read each item carefully. Please circle the response which most closely corresponds to your point of view.

- 1 = Very Satisfied
- 2 = Somewhat Satisfied
- 3 = Neither Satisfied Nor Dissatisfied
- 4 = Somewhat Dissatisfied
- 5 = Very Dissatisfied

1.	Staff courtesy	VERY SATISFIED	1	2	3	4	5	VERY DISSATISFIED
2.	Staff knowledge	VERY SATISFIED	1	2	3	4	5	VERY DISSATISFIED
3.	Staff responsiveness	VERY SATISFIED	1	2	3	4	5	VERY DISSATISFIED
4.	Clarity of orientation session	VERY SATISFIED	1	2	3	4	5	VERY DISSATISFIED
5.	Appearance and cleanliness of the training facility	VERY SATISFIED	1	2	3	4	5	VERY DISSATISFIED
6.	The trainers	VERY SATISFIED	1	2	3	4	5	VERY DISSATISFIED
7.	The training materials	VERY SATISFIED	1	2	3	4	5	VERY DISSATISFIED
8.	Opportunity for class participation	VERY SATISFIED	1	2	3	4	5	VERY DISSATISFIED
9.	Opportunity for hands-on experience	VERY SATISFIED	1	2	3	4	5	VERY DISSATISFIED
10	. Support services such as counseling.	VERY SATISFIED	1	2	3	4	5	VERY DISSATISFIED

Questio	on Three: Would you red	commend THIS tra	ining p	rogram t	o a friend	d?			
	Directions: Read each d 1 = Definitely Not 2 = Probably Not 3 = Might or Might Not	efinition. Please circle	the resp	ponse which	n most clos	ely corresp	oonds to you	ur point of view.	
	4 = Probably 5 = Definitely	DEFINITELY NOT	1	2	3	4	5	DEFINITELY	
	on Four: In order to con s. Please respond to th	•				r wome	n, we nee	d your ideas, comm	ents, and sug-
1. Has t	he training provided you with	the knowledge and s	kills to d	o the key jo	ob functions	s in the oc	cupation wh	nich you selected?	
	YES	NO			·				
	If No, what else do you nee	ed to learn?							
2. What	portion of the training progra	ım was the most valu	able to y	ou?					
3. What	portion of the training progra	am was the least value	able to y	ou?					
4. How	useful were the training mate	erials?							
5. If voi	s could make one change to i	morove this training	what wo	uld vou cha	nge?				
, , ,		, and the state of		, 55 6.14					

The Massachusetts Training Evaluation Form

Over one-third of the individuals enrolled in the North Central SDA had returned their *Training Evaluation Forms* by July 3, 1996. The participants responded by rating statements on a five point scale: Strongly Agree, Somewhat Agree, Neither Agree Nor Disagree, Somewhat Disagree, Strongly Disagree.

The response of the participants to the mentoring provided by the program was temperate.

- Seventy percent felt that the mentors had provided them with strong encouragement and support.
- Fifty percent of the respondents agreed that the mentors had provided them with information about formal work rules in the occupation/industry. .
- Fifty percent of the respondents indicated that the mentors had explained the informal rules and expectations of the occupation/industry.
- Fifty percent agreed that their mentors/trainers had reviewed their resumes.
- One respondent commented that it was her fault because she could not attend most of the meetings the mentor set up.
- Forty percent of the respondents agreed that the mentoring program introduced them to individuals who worked in their chosen field.

Question Two: Do you agree or disagree with the following statements? Please circle the response which most closely corresponds to your point of view.

Directions: Read each item carefully. Using the scale shown below, circle the number which best describes your belief.

- 1 = Totally Disagree
- 2 = Mostly Disagree
- 3 = Disagree somewhat
- 4 = Agree somewhat
- 5 = Mostly Agree
- 6 = Totally Agree

My mentor/trainers introduced me to people who work in my chosen field.	DISAGREE	1	2	3	4	5	AGREE
My mentor/trainers provided me information about formal work rules in this occupation/industry.	DISAGREE	1	2	3	4	5	AGREE
3. My mentor/trainers explained the informal rules and expectations of this occupation/industry.	DISAGREE	1	2	3	4	5	AGREE
4. My mentor/trainers provided me encouragement and support.	DISAGREE	1	2	3	4	5	AGREE
5. My mentor/trainers/instructors reviewed my resume.	DISAGREE	1	2	3	4	5	AGREE



Training

The critical design element of the two Massochusetts training programs for nontroditional occupations for women was the training delivery model. The training design effected the recruitment efforts and the delivery of supportive services. Each program provided training differently. The Metro South/West program provided individual referrals for occupational instruction to diverse training institutions. The North Central program designed a group training program focused on a specific industry.

The Crafts, Repair and Technologies Program in South Suburban Boston

Customized, individuolized referrols to institutions offering troining for nontroditional occupations were offered by the Metro South/West Service Delivery Areo. The program was designed to focus on specific nontroditional occupations in the automative, electricol, construction, biotechnicol, smoll opplionce repoir, ond electronic, environmental loboratory, health, and optometric/ophthalmic technologies fields. The troining design provided for controcting with existing vocotional schools, community colleges, and union opprenticeship progroms. The recruitment flier odvertised "troining in coreers such os outomotive technology, electrical apprenticeship, construction apprenticeship, corpentry, lob & electronic technologies, smoll opplionce repoir, and heating, ventilation, oir-conditioning".

In the technical proposal, the Service Delivery Area proposed enrollment in:

- 1,000 to 2,000 hour training programs in automotive technology
- 600 to 1,000 hour training programs in wiring and equipment installation
- 800 to 1,000 hour training programs in corpentry, plumbing, skilled mointenance, heating ventilation, and machine operation
- 600 to 1,000 hour training programs in biotechnology, environmental technology or health technology

- 800 to 1,000 hour troining programs in small household oppliance repoir, including related heating, refrigeration, and electrical repoir
- 1,000 to 1,500 hour troining programs in opticol/ optometric/ophthalmic monufocturing, service, and repoir

The enrollment schedule was incremental for the Metro South/West oreo progrom becouse of the stoggered individual referrals to specific nontroditional occupational training, R.E.T.S. (Radio, Electronics and Television School) Electronics School offered open enrollment with closses storting each Mondoy. Other proprietory institutions offered monthly openings. The mojority of post-secondary schools had semesterbosed scheduling, with most courses beginning in September or Jonuary. The program enrollment period was from September, 1995 through September, 1996. Ten individuols enrolled in September and five in October of 1995. These fifteen porticiponts oftended troining progroms of three institutions: Assobet Volley Regional Vocational Technical School, Boy Stote School of Appliances, and TAD Technical Institute. Four individuols enrolled in November, ottending programs of Boy State School of Appliances, Clork University, ITT (Internotional Telephone & Telegroph) Technicol Institute, and TAD Technicol Institute. The total number of participants reached nineteen by November. The next wove of enrollments begon in the winter of 1996 with the admittance of two women in Jonuory. Four enrollments in Februory, increosed the number of porticipants to twenty-three. These women ottended Quincy College, RETS Electronic School, Clork University, and New England Troctor Troiler School. Twenty-seven recruits were enrolled in troining by the end of April. In September 1996, the twenty-eighth porticipont entered Clork University.

A modified voucher opproach was used to finance the ocademic training of the individually referred participants. The Metro South/West Workforce Development Career Center created a looseleaf binder containing listings of training programs of less than one

yeor durotion and occupationally oriented ocodemic courses fulfilling certification requirements. Bosed on interests, optitudes and experience, the porticipant selected on occupation for training and the provider of training. The cose manager/counselor reviewed the individual services strategy plan with each participant. After screening the employability plans for appropriateness, the counselor referred the woman to an appropriate training institution to begin the admissions process. Upon the participant's acceptance, the service delivery area poid the tuition directly to the training institution. This process took up to one month from application to the octual stort of training.

During the first four months of the progrom's implementotion (September - December, 1995), proprietory and regional vocational technical schools offered to progrom porticiponts troining which storted each month. Women were troined in certificate and diplomo programs of Assobet Volley, Boy State School of Applionces, ITT Technical Institute and TAD Technical Institute. The women received instruction in crafts ond repoir occupations including opplionce repair, outomotive mechanics, carpentry, computer electronics, diesel technology and refrigeration repair. The duration of the selected troining ronged from eight to eleven months. In the second holf of the program (colendor yeor 1996), enrollments were at colleges, proprietary schools and regional vacational technical schools. (Although community colleges were on option for troining in computer and information sciences and electronics communication technology, the porticiponts did not choose to utilize the community colleges within or odjocent to the service delivery oreo) Women were troined of Clark University, Keefe Technicol School, Minutemon Regional Vocational Technical School, New England Tractor Trailer School, Quincy College, and RETS. These women were instructed in predominantly technical occupations: biological technology, biomedical engineering, certified network engineering, computer and information science, electronics communication technology, environmental science, graphic and printing equipment technology, ond truck driving.

Enrollments were in the crafts, repair, technologies and transportation:

Crofts

Carpentry

Repair: Electrical/electronic equipment Auto/automotive mechanic Computer/installer/repair Heating/air conditioning **Technologies**

2

3

3

3

2

Electrical/electronic/communications Graphic & printing equipment Business systems networking Hydraulics technology/technician Biomedical engineering/related Water quality/wastewater treatment Biological technology

Transportation

Truck, bus & other commercial driving Training duration ranged from ten weeks to eleven months.

The modified voucher approach was used to finance training at the following institutions: Assabet Valley Regional Vocational Technical School

(4 students) **Bay State School of Appliances** (5 students) Clark University (6 students) ITT Technical Institute (1 student) Keefe Technical School (1 student)

Minuteman Regional Vocational Technical School

(2 students) New England Tractor Trailer School (1 student) Quincy College (1 student) RETS Electronics School (1 student)

TAD Technical Institute (6 students)

Each school provided to its students an orientation to the training institution and its requirements. Following the completion of school training, one participant enrolled at a carpentry apprenticeship program. This participant also earned her GED.

By the end of January, one participant completed training in electrical/electronics/communications. Two additional completions at Bay State School of

Appliances were reported by the end of February. A participant completed training at Clark University during March. Participants completed training for client server/business systems networking at Clark University and for major appliance repair by the end of April. During May, an additional participant finished her training at Minuteman Technical School.

By late June, 1996, a total of eight participants had completed instruction in electrical/electronic/communications (1), biomedical engineering (1), biological technology/tech (1), carpentry (1), electrical/electronics equipment (2), graphic & printing equipment (1) business systems networking (1). In July, a trainee in automotive technology graduated from TAD Technical Institute. In August, two more participants finished training, with completions recorded at Clark University and Assabet, As of mid-September, twelve women had completed training, with the completion of auto technology training at TAD Technical Institute. In October, participants fulfilled their course requirements at New England Tractor Trailer School and Clark University. By the beginning of December, sixteen women had finished training. The estimated completion of one student at Assabet Valley was extended to December 31, 1996 because of extenuating circumstances. The May report noted that the instructor of refrigeration repair had died, affecting the plans of one student. The June report provided follow-up: "Due to the death of her instructor, she will be going back to school September through November for Refrigeration/Air Conditioning Repair and Certification". The other students completed training programs at RETS, TAD Technical Institute, Bay State School of Appliances, Keefe Technical School, and Clark University in December.

As of mid-March 1997, one participant who had been referred by the Department of Correction dropped out of training due to relocation. Two participants temporarily withdrew from the labor force, one for medical reasons. One woman pursued an associate's degree in electronics technology.

Several participants received academic recognition or awards: the student of the month at TAD Technical

Institute; class speaker at graduation (refrigeration appliance repair) at Assabet; bronze medalist at the VICA (Vocational Industrial Clubs of America) national appliance repair competition; nomination for Adult Vocational Award by the Massachusetts Association of Vocational Administrators; and the student's profile in the school newsletter.

The Women in **Plastics Program in** North Central Massachusetts

The North Central Massachusetts Regional Employment Board (NCMREB) staff partnered with the local technical school, a community college and the North Central Massachusetts Plastics Council, in the design and implementation of the training program. The initiative for the program came from the private sector. The involvement of small companies was solicited. Two plastics executives: Richard White, Sales and Marketing Director, Mark Technical Mold, Inc. and Mark Lavoie, Purchasina Manager, Mar-Lee Molds Company, instructors at the Leominster Center for Technical Education and faculty at Mount Wachusett Community College, worked with the REB Director in designing the program. The planning group met twice and reviewed the curriculum design in July. Representatives from the plastics council and manufacturers of molds for the plastics industry recommended training in mold making and wire electrical discharge machining. Richard B. White of Mark Technical Mold, Inc., a manufacturer of molds for the plastics industry, wrote a letter of support for the grant. He noted "In mold making positions, in specialized machining of metals (CNC milling, turning, electrical discharge machining) and computer assisted drafting and design, skills are in high demand as well as well paid". He added "If this program is funded, I along with many others in the plastics industry would be willing to visit the classroom to give an overview of the types of jobs in the mold making industry". The commencement of the program was delayed until September 11, as requested by the instructors, to accommodate the

schedules of the machine shap instructor and industry representatives. The Regional Employment Board (REB) Executive Director was concerned about designing a curriculum to be presented by industry representatives who were inexperienced in classraam teaching and educators who were used to teaching structured academic courses

In a report prepared by the City of Leominster Office of Planning and Development, the State of the Plostics Industry: An Overview of the Plostics Industry in the Greater Learningter Area (Morch, 1996), it was nated that "Large and small firms differed samewhat on job troining needs. While experienced mold mokers and designers were given the highest priority by both, the overall level of knowledge and skills were mare important to small firms. Following mold making experience, small firms listed computer knowledge and experienced machinists as their next most important training needs. Only one firm identified ESL [English as a Second Language] os a priority, while none of the firms pointed to the need for basic skills. Conversely, large firms responded with ESL and basic skills as their most important jab training needs. The iab training needs of the region also differ occording ta industrial sector. For the primary injection malding companies, the needs most cited in the industry survey were basic education and ESL. Conversely, the needs of the region's tool and die makers involve more specialized training in CAD/CAM and CNC machinina".

The twelve month intensive graup training program at o lacal technical school in North Central SDA was designed to provide tronsferrable skills and occupational campetencies required by the plastics industry. The program was planned to address the low porticipatian rate of wamen employed in the plastics industry. In the March 1996 report: State of the Plostics Industry: An Overview of the Plostics Industry in the Greater Leominster Area, the City of Leaminster Office of Planning and Development stated "The role of wamen in the region's plastics industry is comparable to that of any other traditional male industrial sector. Women are typically placed in lower-skilled jobs that

ore physically less demanding". The training pragram was farmulated to include a career path component and skills training. The career poth component provided a description of skills to be learned, an explanation of passible career paths, and information on the educational requirements needed for career advoncement in the plostics industry. Training and learning were envisioned as contextualized and competency-based. Each student would be provided with a lathe which she would learn to operate. A curriculum for the nine month skill training component was designed to include:

- applied mothematics including olgebro, geometry, ond trigonometry.
- · computer-aided drafting.
- computer-aided manufocturing; and
- machine shap training an lathes and milling machines

Upon completion of the troining, the porticipants would be qualified for positions including mold polishing, machine tool pragramming, mochining, quality assurance, purchasing and sales. The grant praposol pastulated that the drafting training would prepore women for pasitions in ather industries as well.

Recruitment fliers and newspaper articles emphasized that the program was designed for women seeking entry-level positions or career advancement in the plastics industry. In the Fitchburg Sentinel (June 19. 1996), the Executive Director of the North Central Regional Employment Board characterized the proaram as a "curriculum aimed of women who want to enter the plostics field or who ore already employed in the plostics industry and want to advance". The troining program was further described os "classes in module form in order to ollow students to pick and choose the greas in which they want to concentrate. Tapics to be addressed included quality control, purchasing and sales, introduction to machine technology and mold palishing". An advertisement in the Warcester Sunday Telegrom (August 27, 1995) highlighted "women age 22 and older who are interested in entering or advancing in plastics careers".

The pragram was designed to begin September 11. 1995, with the first phase lasting through early November. Training was scheduled in the late afternoon an Tuesdoy and Thursdoy from 4:00 P.M. ta 6:30 P.M. to accommodate the schedules of women who worked. The curriculum was composed of separate modules so women could attend those sessions which they needed. A women anly milieu was created to pravide a suppartive environment for learning concepts and skills. By mid-October, a camprehensive career poth camponent was developed including on overview of the plastics industry, a presentation on plastics materials and processes by a university professar, exposure to molding machine technology of the Plostics Museum, on explanation of quality cantrol processes by industry specialists, and information on sales/office/camputer/warehousing/inventory positions by plastics industry specialists.

An overview of machine technalogy, metal warking, metrolagy, blueprint reading, and camputer assisted design were scheduled to be offered in Phase Two. In early December, this phose of the curriculum was revised to include two seminars on mald palishing. The sessions were organized os three groups of ten wamen rotating through hands-on warkshops on machining, computer assisted design, and computer processing. Each workshop was scheduled to meet five consecutive times between late Navember and late January.

Phase Three of the skills training pragram was devised to create opportunities for individual referrols to classroom training at contracted technical schools, cammunity colleges, and colleges. Courses onticipated included injection malding, moth/blueprint reading, camputer assisted design, quality cantrol, computer applications, palymeric materials, design applications, purchasing, morketing and sales, management and productian, mald polishing, and metal working machining. Pragram planners recognized that the course scheduling, enrollment space availability, and funding would influence the full implementation of Phase Three which was scheduled to be held fram February through June, 1996.

The Plastics Technician program began with thirty-one enrollees in September, 1995. Twenty-two ond one holf hours of skills troining were provided to the troinees in Phose I. On September 11, Dick White of Mork Technicol Mold and Terrionn Terry of the REB held o comprehensive orientation to the plostics industry, the gools of the program and the training program requirements. A panel of employers representing NYPRO, Mork Technical Mold, TRW, and Stan-Cast presented on overview of the plastics industry on September 19 and September 21. Employers enthusiastically volunteered their time. Through September 28, six employers had mode presentations to the class. Plastics Moteriols and Processes were covered on October 3rd by Nick Schott, Professor at the University of Mossochusetts - Lowell. The holding power of the troining program was exhibited by three women who hod found employment by October 1, 1996, but decided to complete the program. In the September report, the REB Director reported "Three women who were unemployed when the progrom began have gotten jobs. All [the jobs] are in manufacturing and are technical in nature, olthough none is octuolly in plostics. They each told me that they told their potential employer that they would want to continue to ottend the course. In each case, this involves leoving work on Tuesdoys and Thursdoys. Each employer ogreed and each new job holder continues to show up for class". She observed "One welfare recipient who is expecting o boby that is ten days overdue keeps on attending saying that she likes the class". The REB Executive Director commented that the sessions had "a sense of authenticity".

A session on Molding Mochine Technology was conducted of the Plostics Museum on October 12. Three industry specialists conducted the Quality Control session on October 19. The Soles/Office/Computers/Warehousing/Inventory occupations session, held on October 26, was conducted by industry experts from Res-Tech, Quality Resins, and Computemps. A woman from TRW presented the Quality Control session on November 2.

In November, 1995, Phose Two offered two sessions on mold polishing (November 14 and November 21) ond three seminors with groups of ten women rotating through five hands-on workshops on mochining, computer ossisted design, and computer processing. The women took on additional sixth session which was selected from among the three workshops bosed on their employability plan. Each workshop met between November 28, 1995 and January 25, 1996. Each participant received forty hours of instruction. The thirty-one enrollers completed Phase Two of the customized group training sessions for the Plastics Technology/Technicians program of the Leominster Center for Technical Education.

In the first quorter of 1996, most of the women in the plostics program individually selected an academic course related to the segment of the plostics industry in which they intended to pursue employment. Some participants selected two courses. Individualized referrols to troining of ocodemic institutions were financed using a modified voucher approach. Selection and costs were reviewed by the Executive Director of the North Central Massochusetts Regional Employment Boord (NCMREB). Requests were approved on a coseby-case bosis, with particular attention to the employment outlook for the selected occupation, the necessity of the course work for coreer odvoncement, and the ovoilobility of employer tuition reimbursement. After the participant's selection was opproved by the NCMREB staff, the participant was permitted to tell the school or college that the grant would pay the fee, tuition and book costs (in some instances). Upon receipt of invoices, payment was made to the training institution. No poyments were made by NCMREB without invoices or receipts. The NCMREB issued auosi-letters of credit informing the schools that the NCMREB would pay the tuition upon receipt of the invoice. In most instances, NCMREB paid the institutions rother than reimbursing the students. The NCMREB considered reimbursing the student if the school would not occept poyment upon invoice. In that instance, the participant was instructed to call the REB Director for approval. The participant could not expect automatic opprovol and reimbursement.

Twenty-one porticiponts enrolled in thirty-seven courses at regional vocational technical schools, community colleges and colleges. The training institutions included Assumption College, Becker College, Ellis Regional Vocational Technical School (CN), Fitchburg State College, Leominster Center for Technical Education, Montachusett Regional Vocational Technical School, Mount Wachusett Community College, New Hampshire Technical College, NYPRO Institute, Quality Institution of New England (through MWCC), Quinebaug Community College (Danielson, CN) and Quinsigamond Community College.

The February stort of Phose III reduced the number of courses avoilable for enrollment. In the spring of 1996, nine women enrolled of NYPRO Institute, on occredited academic division of NYPRO, Inc. based in Clinton. Offering certificate and degree programs in precision plastics injection molding and computer assisted design, the Institute has affiliations with five colleges in Central Massachusetts. The students completed courses in Injection Molding (4), Polymeric Materials (2), Statistical Process Control (2), and Computer Aided Design (1). At Mount Wachusett Community College (MWCC), ten participants took twelve courses in the spring and fall 1996 semesters: Computer Applications (4), Intro to Microcomputers (1), Morketing (1); Quolity Improvement (4); and the Microsoft Office (1). Business Organization was taken at MWCC by one participant in the fall of 1996. [At the Quality Institute affiliated with Mount Wochusett Community College, four women took courses including Introduction to ISO 9000 (2) in the summer and Total Quality Monagement (2) in the foll1.

One individual finished two courses of Quinebaug Volley Community College in Connecticut (including CAD/CAM) in the spring and foll semesters of 1996. This porticipant also studied Basic Blueprint Reading of Ellis Regional Vocational Technical School. Four women attended courses of Quinsigomond Community College in the spring and summer semesters, 1996: Computer Applications (2), Introduction to

CAD (1) and Beginning Algebro (1). At Leominster Center for Technicol Education, one participant took instruction in Wire Electrical Discharge Machine Training. In the spring of 1996, a participant completed Behavior in Organizations at Assumption College.

A new wove of enrollments began in the foll semester, 1996. Two women enrolled at New Hompshire Technical College. At Fitchburg State College, another woman completed successfully Writing I. Coursework for Introduction to CAD was taken at Montachusett Regional Vocational Technical School. One participant received instruction in two courses at Becker College: Introduction to Computers and Biology.

Most of the courses token were equivolent to those offered in the ossociote degree program in Plostics Technology offered by the combined program of NYPRO Institute, Mount Wochusetts Community College and Fitchburg State College: English Composition I, Measurement Techniques and Blueprint Reoding, Technicol Mothemotics, Organizational Behavior, Statistical Process Control, Polymeric Materials Design and Application, Injection Molding, and Mold Design. Troinees enrolled in the following courses:

5

4

4

2

1

Quolity Improvement Injection Molding Computer Aided Design Polymeric Moteriols Statistical Process Control Introduction to Computers Introduction to ISO 9000 Morketing The Microsoft Office **Business Organization Bosic Blueprint Reoding** Beginning Algebro Wire Electronic Discharge Mochine Troining Behovior in Organizations Writing 1 Biology

The REB Director stoted in June 1996 "During this quarter most of the women completed the ocodemic

course work that they had individually selected in order to make them more employable in the plastics industry or some other manufacturing or nontraditional occupation. We have not heard from all the participants, but the anecdatal reports that are coming in ore quite positive. We have not heard of a mork below a B". She commented "olthough not everyone has reported in, the reports to date an outcomes for the accodemic course work that people selected and took related to their own individual plans for career advancement have been exceptionally good".

Formol on-the-job troining wos provided in mold moking of TRW to one porticipont. Another porticipont took remedial level training, Beginning Algebro.

In the June 1996 report, the REB Director noted "We orronged for a certificate for the women on July 11. Mentors, odvisors and instructors were invited. The ceremony was a big success. [A porticipant] brought her three doughters who are in high school in Gordner. They are so proud of their mother for getting off welfore and improving life for them all".

All thirty-one women completed Phose One of the Plostic Technicions troining os of 12/31/95. As of 01/31/96, four hod completed the Women in Plostics progrom. Eight finished their troining by 06/30/96. By 10/23/96, fifteen porticiponts hod completed the progrom. Two participonts remoined in school full-time. One wos enrolled at Mount Wochusett Community College, pursuing on Associate's Degree in Business and Human Services. The other wos completing coursework towards on Associate's Degree. Another woman, completing course work for a Bochelor's Degree part-time, reported "[1] took steps to finish education (Assumption College) will graduate May 97".

A number of the porticiponts were recognized or reworded for ocademic achievement: A in injection molding of NYPRO; A in Writing I of Fitchburg Stote College; A in Introduction to Computers of Becker College; A in ISO 9000 course of the Quolity Institute of New England. and A in Beginning Algebro of Quinsigomond Community College. One recipient won o \$500 scholorship of her local community college.

Employers and instructors were enthusiastic about the troining. In the June 1996 report, James Updyke of TRW was quoted: "This is just the tip of the iceberg for TRW. I think it gives us the opportunity to train many people such as the [porticiponts] of the world in trades that we have a hord time procuring skilled workers". Roy Vollee, the computer assisted design instructor at the Leominster Center for Technical Education enthusiastically stated: "As a teacher, I feel proud to have tought people who are so committed".

RECOMMENDATIONS

- 1. Include local employers in the design of curricula for training programs.
- 2. Encourage local employers to participate on vacational-technical schools and community colleges advisory boards.
- **3.** Use computerized coreer information delivery systems to provide recruits with information obout available training courses.
- **4.** Create a brochure listing troining programs of less than one year duration and occupationally oriented acodemic courses fulfilling certification requirements.
- **5.** Utilize os much os possible open-entry/open exit enrollment in programs instead of set entry and exit dates.
- **6.** Utilize troining institutions offering portable credentiols such os diplomas, certificates, academic credit or degree.
- **7.** Utilize proprietory troining schools (schools run for profit and linked to porticular businesses and occupations) for short-term, open-enrollment troining.
- **8.** Use vocational technical schools and community colleges which provide quality training at reasonable costs.
- **9.** Work with vocotional-technical schools and community colleges to maximize the use of fall, spring and summer semesters.

- **10.** Expect to adapt the training to the normal academic calendar. Budget sufficient training funds if nontraditional schedules, evening hours, or weekend training are planned.
- **11.** Train instructors in cultural and gender issues in order to improve their attitudes about training women for nontraditional employment.
- **12.** Provide orientation and technical assistance on using audiovisual equipment and lesson plans to industry representatives who are inexperienced in classroom teaching.
- **13.** Work with vocational technical schools and community colleges to create increased opportunities for hands-on instruction, on-the-job training, in-house training and internships.
- **14.** Use a "modified voucher" approach to finance individual referrals to proprietary schools, vocational-technical schools, community colleges and college courses.
- **15.** Include internships, practicums and supervised volunteer experiences as part of the training offerings for women with no work history in order to increase their potential entry employment wages.

Project Flow Evaluation

ACTIVITY	METRO SOUTH/WEST SDA	NORTH CENTRAL SDA
Training orientation	each individual school did orientation	September 11, 19 and 21
remedial	none provided	one enrollee - Beginning Algebra
group customized training contract	No	Plastics Technology/Technicians - 31 enrollees Phase One - 31 completers Plastic materials and processes 10/03/95 Molding Machine Technology 10/12/95 Quality Control 10/19/95 Sales/Office/Computers/Warehousing/Inventory occupations 10/26/95 Quality Control 11/02/95 Phase Two - 31 completers - Mold polishing seminar 11/14/ and 11/21/95 Workshop rotations (11/28/95 to 01/25/96) Machine shop at LCTE CAD at LCTE Introduction to computers at LCTE
individualized referral	Total enrollment: 11, 10/12/95 Total enrollment: 16, 11/30/95 Total enrollment: 19, 12/05/95 Total enrollment: 21, 01/30/96 Total enrollment: 25, 02/30/96 Total enrollment: 26, 03/30/96 Total enrollment: 27, 06/30/96 Total enrollment: 28, 09/30/96 Total enrollment: 28, 09/30/96 Assabet Valley 4 2 by 10/12/95 (carpentry, appliance repair) 4 by 12/05/95 (appliance repair) 4 by 01/96 (carpentry) carpentry 1 appliance repair HVAC 1 electronics 2 Bay State School of Appliances 5 4 by 10/12/95 (HVAC) 5 by 11/30/95 (computer electronics) 5 by 12/05/95 appliance repair 4 computer electronics 1 TAD Technical Institute 6 5 by 10/12/95 (automobile mechanics) 6 by 11/30/95 (diesel mechanics) 6 by 11/30/95 (diesel mechanics) 6 by 12/05/95 6 by 01/96 (Alarm Systems Wiring) 6 as of 02/14/96 M-Th 3:00 PM auto technology 4 diesel technology 1 alarm systems wiring 1	Phase III 21 enrollers in 37 courses Nypro Institute 9 (Spring and Fall 1996) Injection Molding 4 (Spring and Fall, 1996) Polymeric Materials 2 Statistical Process Control 2 Computer Aided Design 1 Mount Wachusett Community College 10 (Spring and Fall 1996) Computer Applications 3 Quality Improvement 3 Intro to Microcomputers, 1 (spring 96) Marketing 1 The Microsoft Office 1 Business Organization 1 (Fall, 1996) Quinebaug Community College 2 (Spring1996) CADCAM 1 Ellis Regional Vocation Tech 1 Basic blueprint 1 Quinsigamond Community College 4 (Spring and Summer 1996) Computer applications 2 Introduction to CAD 1 Beginning Algebra 1 Leominster Center for Technical Education 1 Wire EDM Training 1 Assumption College 1 (Spring 1996) Behavior in Organizations 1 New Hampshire Technical College 2 (Fall 1996) Fitchburg State College 1 (Fall 1996)

ACTIVITY	METRO SOUTH/WEST SDA	NORTH CENTRAL SDA				
ACTIVITY	ITT Technical Institute 1 1 by 11/30/95 (electronics technology) Quincy College 1 Enviranmental Science 1 (01/96) RETS Electronic Schaal 1 by 03/30/96 Electronics Communication 1 Clark University 6 2 by 03/30/96 (Camputer & Information, Graphic & Printing Equipment Operation) 5 as af 07/15/96 Camputer & Information Science 1 Graphic & Printing 1 Certified Networking Engineer (CNE) 3 6 as af 09/30/96 Minuteman Regianal VocTech 2 1 by 03/30/96 Biomedical Technology 1	Quality Institute 4 Intra to ISO9000 2 (Summer, 1996) Total Quality Management 2 (Fall, 1996) Montachusett Regianal Vocation Technical School 1 Intraduction to CAD Becker Juniar Callege 2 Intro to Computers 1 Biology 1				
courses	Electrical/electronic equip 4 Auto/autamative mechanic 4 Electrical/electronic/camm 3 Graphic & printing equip 3 Business systems netwarking 3 Hydraulics technology/tech 2 Computer/installer/rep 2 Biamedical engineering/rel 1 Water quality/wastewater treatment 1 Biological Technology 1 Carpentry 1 Heating/air conditioning 1 Truck, bus & ather cammercial 1	Quality impravement 5 Injectian malding 4 Camputer aided design 4 Polymeric materials 2 Statistical process control 2 Introduction to computers 2 Introduction to ISO9000 2 Marketing 1 The Microsoft Office 1 Business Organization 1 Basic blueprint reading 1 Beginning algebra 1 Wire EDM training 1 Behaviar in arganizations 1 Writing I 1 Biolagy 1				
academic institutian	Assabet Valley Regional Vac Tech Schoal Bay State Schaol of Appliances	Assumptian Callege Becker Junior College				

Clark University ITT Technical Institute Keefe Technical School Minuteman Regianal VocTech Schaol New England Tractor Trailer School Quincy College **RETS Electronics School** TAD Technical Institute

Ellis Regianal Vacational Technical Fitchburg State College Leominster Center for Technical Education Mantachusett Regianal Vocational Technical School Mount Wachusett Community Callege Nypro Institute Quality Institution of New England (thru MWCC) Quinebaug Cammunity Callege Quinsigamond Cammunity Callege

ACTIVITY	METRO SOUTH/WEST SDA	NORTH CENTRAL SDA
apprenticeship	carpentry apprentice	none available in geographical area
on-the-job (contracted, formal)		formal OJT at TRW, but not contracted
OUTCOME Completed training	METRO SOUTH/WEST 1 as of 01/31/96 1 reported as of 02/14/96 2 reported as of 03/30/96 3 reported as of 04/01/96 8 as of 06/30/96 electrical/electron/ comm 1 biomedical engineering 1 biological technology/tech 1 carpenter 1 electrical/electron equip 2 graphic & printing equip 1 business systems networking 1 12 as of 09/18/96 16 as of 12/01/96 18 as of 01/14/97 25 as of 02/28/97 3 dropped out of training	NORTH CENTRAL phase one as of 12/31/95 31 Plastics Technicians Phase III as of 01/31/96: 4 as of 06/30/96: 8 as of 09/18/96: 8 as of 10/23/96: 15 as of 01/03/97: 20
Training retention rate	89%	100%
Returned to school full-time	Associate Degree, Electronics Technology ITT Technical Institute	Associate Degree in Business Management Mount Wachusett Community College Associate's Degree, Quinsigamond CC
Returned to school part-time		Plastics Technician Certificate, NYPRO Bachelor's Degree, Assumption College
Completed Major Level of Education (i.e. GED, certificate, Associate Degree)	GED, Assabet Valley Tech	matriculated in Bachelor's degree program at Assumption College
Received academic recognition or award	student of the month, TAD Technical Institute class speaker at graduation (refrigeration appliance repair) at Assabet VocTech bronze medalist at VICA (Vocational Industrial Clubs of America) national appliance repair competition nomination for Adult Vocational Award by the Massachusetts Association of Vocational Administrators profile in school newsletter	A in injection molding at NYPRO A in Writing I at Fitchburg State College A in Introduction to Computers at Becker Junior College A in ISO 9000 course at Quality Institute of New England A in Beginning Algebra, Quinsigamond College B+ in Intro to Microcomputers at MWCC B in Behavior in Organizations at Assumption College \$500 scholarship to Quinebaug Community College
Received certification or registration	Commercial Driver's License Refrigeration Technician License	

The Participants' Perspectives

Summary of the Massachusetts Training Evaluation Form

Over one-third of the individuals enrolled in the North Central SDA returned their Training Evaluation Forms by July 3, 1996. The participants responded by rating statements on a five point scale: Strongly Agree, Somewhat Agree, Neither Agree Nor Disagree, Somewhat Disagree, Strongly Disagree. An analysis of the responses indicates that as a group the respondents agreed somewhat that the second phase of the training had been satisfactory.

- Over ninety percent of the eleven respondents felt that the course content was relevant to their present or future job.
- Of the respondents, ninety percent agreed that the training courses provided them with new ideas about what type of work they could do.
- Ninety percent believed that the training courses had provided them with a strong career foundation.
 Again, ninety percent affirmed that the training prepared them as well educationally as the people currently performing the jobs.
- Eighty percent of the respondents felt that the faculty of the training institution was interested in helping them. Almost one-half of the respondents strongly agreed with the statement: "The faculty of the training institution was very interested in helping me".
- Over seventy percent of the respondents felt that the training courses would help them find employment. Over one-third of the respondents strongly agreed with the statement: "The training courses will help me find employment".
- Over forty-five percent felt that the courses were too theoretical, not practical enough.
- Of the eleven respondents, only one-third agreed moderately that the training courses were too easy.

In summary, the eleven respondents viewed favorably the course content and the instructors. Six of the seven respondents, (86%), would definitely recommend the training program to a friend.

COMMENTS OF RESPONDENTS

Of the ten respondents, one-third affirmed that the training had provided them with the knowledge and skills they needed to perform the key functions of the occupation they had selected. Question Four

1. Has the training provided you with the knowledge and skills to do the key job functions in the occupation which you selected?

Three of the respondents said yes. Six indicated the need for more training while one stated her "career took an unexpected turn in another direction". Participants responded that they needed:

- more hands on experience
- more training [it] has helped
- I need to continue my education so that I am marketable
- more computer training
- would have to take a lot of technical courses -more practical hands on training
- I was never introduced to a specific field in plastics that I could get a job with; but I learned a great deal about general work strategies
- No, because my career took an unexpected turn in another direction

2. What portion of the training program was the most valuable to you?

Out of the ten responses, seven thought that handson-training and vocational course work were most valuable. The remaining three felt that the self-esteem and job search training were of most value.

- the intro [introduction] class at L.T.S [Leominster Technical School].
- exposure to training at the high school
- injection molding course
- hands on [training] and visiting factories
- machine shops and classes in college
- the hands on training and self esteem workshops
- the input of various speakers and labs
- everything was valuable to me

3. What portion of the training program was the least valuable to you?

Out of the eight responses, four thought that the lectures were of least value to them, two thought the mentors were least valuable. Of the remainder, one thought mold polishing was least valuable and the other participant thought there was too many negative comments about males.

- some of the speakers
- the speakers not directly related to the plastics field
- lectures in phase I
- the training program was most valuable to me
- portions of low interest, i.e. mold polishing

4. How useful were the training materials?

Of the ten respondents, eight thought that the training materials were very useful, one that some of the materials were useful and the others were not useful and the remaining participant thought they were somewhat useful.

- somewhat helpful
- most materials are very useful and informative
- very useful
- verv useful
- informative
- very [useful]
- quite useful
- most were very useful
- some good, some not
- the training materials were very useful because I learned technical concepts and more English at the same time

5. If you could make one change to improve this training, what would you change?

Out of the ten responses, five participants wanted more hands-on training. One respondent wanted apprenticeship. Another wanted better scheduling.

Another respondent wanted college training, one more specialization, and another participant wanted more involvement of welfare mothers.

- more hands on and more one on one with prospective employers about openings, wages, experience needed. Haw to get into the industries willing to train neonle
- lengthen training pragram at high school and extend college
- training long enough for people to complete, at least a certificate program so people are marketable better scheduling of the first half
- · more hands on training
- more hands on [training] and less fluff
- more hands on training such as apprenticeship
- less lectures, more hands on training
- continue to get mare welfare mothers involved.
- It needs to be more specialized to a specific field according to a person's abilities and interests
- add more hands on training
- more practical training in academic courses

COMMENTS ON NCMREB FOLLOW-UP

Responses varied reflecting the needs of individual participants.

- I did not take a caurse. By the time I had decided what to do, the courses already started. I would really like to take a course if I could.
- I am an accountant in the injection molding industry. This course helped me understand the process and what my campany does to make money.
- In the next two months, my workplace will be installing computers at every workstation. I needed this course to get a jumpstart. My workplace hopes to become ISO 9000 registered by March 1997.

- This course is so helpful. I intend to take an audit course also.
- Gave me a better perspective on how people interact in the business world. Also gave me a jump start to finish my education.
- I did not have a computer at home. I was unable to keep up with my assignments without a computer at hame, so I drapped out af the caurse [Microcomputer Applications]
- the computer caurse was invaluable to me
- would have liked an apprenticeship to apply things I learned in class
- would have liked more hands-on and fewer speakers. Loved trip to plastics museum.

Training Evaluation Form

Please complete and give in a sealed envelope to the counselor/facilitator.

Question One: How much do you agree with each of the following statements about the second phase of your training?

Do you agree or disagree with the following statements? Please circle the response which most closely corresponds to your point of view. Directions: Read each item carefully.

- 1 = Strongly Agree
- 2 = Somewhat Agree
- 3 = Neither Agree Nor Disagree
- 4 = Somewhat Disagree
- 5 = Strongly Disagree

1. The training courses were too easy.	STRONGLY AGREE	1	2	3	4	5	STRONGLY DISAGREE
2. The training courses will help me find employment.	STRONGLY AGREE	1	2	3	4	5	STRONGLY DISAGREE
3. The training course content is relevant to my present or future job.	STRONGLY AGREE	1	2	3	4	5	STRONGLY DISAGREE
4. The faculty of the training institution was very interested in helping me.	STRONGLY AGREE	1	2	3	4	5	STRONGLY DISAGREE
5. The training courses were too theoretical, not practical enough.	STRONGLY AGREE	1	2	3	4	5	STRONGLY DISAGREE
6. The training courses gave me new ideas about the type of work I could do.	STRONGLY AGREE	1	2	3	4	5	STRONGLY DISAGREE
7. The training courses provided a firm foundation or basis on which to build. I know what I need to learn next.	STRONGLY AGREE	1	2	3	4	5	STRONGLY DISAGREE
8. My training prepared me as well educationally as people performing similar jobs to mine.	STRONGLY AGREE	1	2	3	4	5	STRONGLY DISAGREE

Training Evaluation Form

Question Two: Do you agree or disagree with the following statements?

Please circle the response which most closely corresponds to your point of view.

Directions: Read each item carefully.

Using the scale shown below, circle the number which best describes your belief.

- 1 = Totally Disagree
- 2 = Mostly Disagree
- 3 = Disagree somewhat
- 4 = Agree somewhat
- 5 = Mostly Agree
- 6 = Totally Agree

1. My mentor/trainers introduced me to people who work in my chosen field.	DISAGREE	1	2	3	4	5	6	AGREE
2. My mentor/trainers provided me information about formal work rules in this occupation/industry	DISAGREE	1	2	3	4	5	6	AGREE
3. My mentor/trainers explained the informal rules and expectations of this occupation/industry	DISAGREE	1	. 2	3	4	5	6	AGREE
4. My mentor/trainers provided me encouragement and support.	DISAGREE	1	2	3	4	5	6	AGREE
5. My mentor/trainers/instructors reviewed my resume.	DISAGREE	1	2	3	4	5	6	AGREE

Question Three: Would you reco Directions: Read each de 1 = Definitely Not 2 = Probably Not 3 = Might or Might Not 4 = Probably 5 = Definitely	mmend THIS training finition. Please circle the				rresponds to	your point	of view.	
,	DEFINITELY NOT	1	2	3	4	5	DEFINITELY	
Question Four: In order to conti Please respond to the following			portunitie	s for wo	nen, we i	ieed youi	ideas, comments, a	nd suggestions.
Has the training provided you with YES						cupations w	hich you selected?	
If No, what else do you ne	eed to learn?		·····					
2. What portion of the training progr	am was the most valua	ble to yo	ou?					
3. What portion of the training progr	am was the least valua	ble to yo	ou?					
4. How useful were the training mat								
5. If you could make one change to	Le .							



Placement

Jab placement services were pravided using different sources in each Service Delivery Area. The Metra Sauth/West Service Delivery Area planned to use the contracted training institutions and the jab listings of the Training and Employment Directory (T.E.D.) of the Division of Employment and Training for their job placement efforts. The North Central Massachusetts Regianal Employment Board stated in the grant proposal that the employers in the Plastics Advisory Cauncil would be utilized for job search and placement. Existing job search workshaps were available in each SDA. The Metro Sauth/West ETA Workforce Development Career Center affered the fallowing workshaps monthly:

Electronic Resumes 2 hours
Resume Development 2.5 haurs
Netwarking the Hidden Jab Market 2.5 haurs
Interview Techniques 3 haurs
Jab Search Skills for the 90's

18 haurs (3 days, each 6 haurs). The Career Center of North Central Massachusetts affered manthly workshops including:

The Job Club 2 haurs
Writing Resumes and Caver Letters 3 haurs
Resume Overview 3 haurs
Interviewing with Canfidence 3 hours
Starting the Job Search 3 haurs

Custamers of bath centers had access to job listings in Massachusetts (T.E.D.) and the United States (America's Jab Bank) as well as access to job listings on the Internet.

The Crafts, Repair and Technologies Program in South Suburban Boston

The Metra South/West (MSW) SDA stated in the grant praposal: "Both jab search, emplayment practicums/apprenticeships and jab placements are handled through each individually contracted program, but will also be accomplished through leads from the Division of Emplayment and Training jab bank". The SDA projected a placement rate for graduates of seventy-five percent, wages at placement

between \$9 and \$21 per haur with benefits, and employment retention of ninety percent.

The catalagues of Assabet Valley Regional Vacational School, Bay State School of Appliances, Clark University, Quincy College, RETS Electronic School and TAD Technical Institute reported the availability of jab placement assistance to students and alumnae.

Of the twenty-three participants with reparted priar wark histories, twenty-six percent (6 wamen) had previausly warked in service occupations. Sales, administrative support and craft occupations each emplayed more than seventeen percent (4 wamen each) af the farmerly emplayed enrallees. Almast nine percent af these participants (2 wamen) were farmerly emplayed in professional jabs. Management, machine aperative, and agricultural positions were each held by ane woman.

Twa wamen entered emplayment by late March, 1996. A graduate fram Bay State School of Appliances secured emplayment as the Chief Maintenance Engineer at \$11.50 per haur with full benefits at a majar hatel in the suburbs of Bastan. A graduate of the Business Systems Netwarking program at Clark University obtained full-time employment at a developer of prepackaged medical software as a technical support specialist earning \$43,000 per year with full benefits.

By late June, seven wamen had abtained full-time emplayment with pension plans. Five wamen received medical insurance. One graduate of Assabet Valley Technical School with a certificate in carpentry faund employment with a builder as a mold carpenter far \$14.04 per haur with full benefits. A secand Assabet graduate accepted emplayment as a line supervisar far a temparary help supply service at \$8.50 per haur. Another woman who graduated fram the biatechnalogy pragram at Minuteman Vacatianal Technical School obtained full-time emplayment with a manufacturer of diagnastic enzymes and biochemical products in praduction support services for \$10.94 per haur with benefits. A second Minuteman Tech

graduate fram the biatechnology pragram abtained a jab selling biamedical glassware for \$18,000 per year with full benefits. Upon campletion of graphics and printing equipment training at Clark University, a participant found work as a painter/stripper/graphic designer at \$13.50 per haur with full benefits. The Management Information System of the Division of Employment and Training reported seven placements at an average haurly wage of \$12.20. The average haurly wage for the six placements in nontraditional accupations was \$13.23. The wamen found emplayment as:

technical suppart specialist \$20.91/hr. salesperson, general merchandise \$12.00/hr. supervisar, line \$8.50/hr. metal-fabricating-shap helper \$10.94/hr. graphics stripper \$13.50/hr. electrical appliance servicer apprentice \$11.50/hr. carpenter, mold \$14.04/hr.

By the end of August, ten wamen had entered unsubsidized emplayment with an average placement wage of \$13.14 and benefits. In September, the MSW case manager reported: "Six wamen have been placed in jabs this quarter. Of the three graduates fram TAD Technical Institute in auta mechanics, ane client is working for thirty haurs per week at a tire company at \$6.50 per haur with benefits. The secand client is warking full-time at the autamative services department of a national retail stare at \$8 per hour with benefits and the third at a tire company at \$8 per hour with benefits. All these campanies told me they have the appartunity for pay increases within six months ta a year."

She cantinued "Another waman was at Assabet Vacational School for electrical wiring and abtained a jab at a manufacturer af patentiameters daing assembly wark. She is making \$8 per haur with benefits. Her supervisar is very pleased with her wark and said there is an appartunity far her ta increase her pay within one year. Two wamen graduated fram Clark University; ane in the Computer Netwark Engineer (CNE) Program has been placed at a software company as a programmer at \$8.20 per hour with full benefits. The other graduated in graphics and is work-

ing at a printing services firm as a painter/stripper/ graphic designer at \$13.50 per hour with benefits".

In early October, a graduate of the truck driving program at New England Tractor Trailer School secured employment as an order filler at \$7.80 per hour at a mailing services company. She was offered a future position as a truck driver upon receiving her commercial driver's license. Another woman, who completed the business systems networking program at Clark, obtained a position as a policyholder clerk at an insurance company with hourly wages of \$8.17.

By early December, more than half of the Metro South/West enrollees (94% of those who had completed training) were employed. Gainful employment was obtained as:

is obtained as:	
technical support specialist	\$20.91
computer programmer	\$20.00
carpenter, mold	\$14.04
print stripper	\$13.50
hand painter	\$12.92
salesperson, general merchandise	\$12.00
electrical appliance servicer-apprentice	\$11.50
metal-fabricating-shop helper	\$10.94
line supervisor	\$8.50
policyholder information clerk	\$8.17
automotive maintenance equipment	
service	\$8.00
order filler	\$7.80
hand sewer	\$7.50
tire repairer	\$7.50
general repairer (automotive)	\$6.00
1.1 6.1 6.6	

Two-thirds of the fifteen employed participants (10 women) found employment in precision production occupations. One fourth of the women were employed in professional and administrative support (2) occupations. One women (7%) obtained a sales position. By early March, twenty-two individuals had found employment.

The average hourly wage of the twenty-two employed participants was \$10.59, ranging from \$6.00 to \$20.91 per hour. The two individuals employed full-time upon program entry increased their average

hourly wages by over twelve percent to \$8.07. Two women who were employed part-time on entering the program obtained full-time employment with twenty-one percent wage increases. The nine women with recent work history earned an average wage of \$12.01 per hour, a one percent increase over their 1995 wages. The two previously employed participants whose wages increased greater than ten percent completed courses at Clark University, one in business systems networking and one in graphics and printing equipment operation. Both were high school graduates. These women obtained positions as a computer programmer and print stripper. Previously, they had worked as a data entry clerk and a pre-print stripper.

Nine former welfare recipients earned an average wage of \$10.39 per hour. Six former welfare recipients obtained jobs paying greater than \$10 per hour as a painter, a metal fabricating-shop helper, a mold carpenter, an electronics tester, an electronics technician, and a general merchandise salesperson. The wages of the nine recently unemployed individuals averaged \$12.15, a two percent increase from their 1995 average hourly wages. By excluding the wages of three women who retained 83 percent of their prior earnings, the average wages of the remaining was \$11.10. These women's average hourly wages increased by over nine percent. The participant with no prior work history received wages of \$6.00 per hour. The twenty women who found employment in training-related occupations earned an average hourly wage of \$10.80. The ten women employed in nontraditional occupations averaged \$9.80 per hour. The nontraditional positions included carpenter, mold (\$14.04), stripper (\$13.50), electrical appliance servicer-apprentice (\$11.50), electronics technician (\$11.00), metal-fabricating-shop helper (\$10.94), line supervisor (\$8.50), automotive maintenance equipment servicer (\$8.00), tire repairer (\$7.50), and general repairer, automotive (\$6.00).

The increase in wages permitted changes in lifestyles. The ten children of the eight single heads of household benefitted from the increased family income.

One single mother commented "I was on AFDC, I didn't have a home, I was living with friends. I didn't know what the future held for my children". Fifteen graduates received medical and retirement benefits. One woman received medical insurance but no pension. Six women had pension plans or social security but no health insurance.

The Women in Plastics Program in North Central Massachusetts

The North Central REB stated in the grant proposal that "Following training, the Plastics Advisory Council will work with the women to provide job search and placement. Mark Technical Mold and MarLee Molds have both committed to assisting these women find employment at their own companies or at other firms in the local area, including Crisci Tool and Dye and Plastican". The REB projected a placement rate for participants of seventy-six percent and wages at placement between \$7 to \$10 per hour.

Of the thirty-one enrollees in the Women in Plastics project, fifteen women were employed full-time (nine in plastics), four part-time, and twelve were unemployed (five on public assistance) at the time of enrollment. Twenty-seven (87%) had worked within the prior two years. Three women had worked at some point in their past and one had never worked. Twelve (44%) women with a recent work history had been employed in administrative support occupations, while over one-third (eight women) held machine operative jobs. Five (18%) had prior employment in service occupations. Professional and sales occupations each employed one woman. The average hourly wage of the fifteen employed individuals (with reported earnings) was \$10.37, with a range from \$5.65 to \$18.00. The wages were inflated by the average wage of \$12.40 per hour earned by the nine participants employed in the plastics industry. The wages of the remaining women averaged \$7.53 per hour.

Shartly after the start of the program, three wamen who were unemplayed at the beginning of the program obtained emplayment. The REB Executive Directar nated "All are in manufacturing and are technical in nature, although nane is actually in plastics". One woman found employment as a mirrar pointer at \$7.00 per haur. (By January, she had lost her positian due ta cutbacks in wark orders.) A secand waman accepted a pasition as a field administrator far a caatings campany at \$20,000, but was subsequently laid off due to lack of work. She remained in the pragram studying injection malding, blueprint reading and CAD. (Upon graduation, she obtained a jab in wide area networking). A third participant obtained a job as an assembler. In Navember 1995, a bi-lingual woman was hired as a part-time file clerk at a bank. After four manths, she was pramated to a full-time seniar teller at \$ 9.50 per haur.

A single mother, wha was employed at the start of the pragram and subsequently had her haurs reduced ta part-time, abtained a full-time positian as a custamer service representative at \$24,000 with benefits in January. The Quarterly Performance Summory, praduced by the Management Infarmatian Systems Unit af the Divisian af Employment and Training shawed faur wamen entered unsubsidized employments with an average placement wage af \$8.28 per haur. (AFDC recipient at \$7.56, 1 lang term unemplayed at \$9.06, 1 UI claimant at \$9.50, 1 woman with no work history at \$7.00)

In February 1996, an emplayed participant wha was laid aff while in training accepted a pasitian as on applications engineer at \$35,000 per year at a monufacturer af high accuracy pressure transducers and digital pressure gages. (NOTE: This jab change was caunted in MIS as an emplayability enhancement). She subsequently baught a new hause.

In the Morch report, the REB Director stated "As it turned out, Ms. Pollack [mentar fram TRW] was oble to give our porticipant o jab on the injection molding line at \$7.21 on hour and then she was oble to trans-

fer to mold palishing training". This participant had jab shadawed with a mald polisher in the firm in January. (Her supervisar had conducted the mald polishing seminar at the Leominster Center for Technical Education.) In the same repart the REB Director cammented "Assistance with jab development or actual jab placement wauld be helpful".

By the end of March, six wamen had entered emplayment. By late June, two additional wamen had found emplayment, one of wham had been laid off for six manths. The eight placements recarded in June included:

customer service representative	\$11.54
quality cantrol technician	\$9.50
inspectar	\$9.06
assembler	\$7.56
injection molding machine aperator	\$7.21
file clerk	\$7.00
electronics tester	\$7.00
painter, mirrar	\$7.00

The average hourly wage of the eight wamen was \$7.48. The five women placed in nantraditional emplayment earned an average haurly wage of \$7.77. Three received employment with benefits and two reported emplayability enhancements.

As wamen completed their caurse wark, their job search pace increased. Jab placement assistance was avoilable to students and alumnae af Maunt Wachusett Cammunity College, Becker Callege, Assumption College, and Fitchburg State Callege. In the beginning af June, the REB Director sent a letter to fifty-one employers in plastics and related industries requesting job placement assistance

During the summer, participants actively saught emplayment. One participant commented an her jab search: "I applied far twa 'nantraditional jobs', had ane interview but didn't get the jabs. BUT I did have the caurage ta try and I will again". Another reported "I am a quality cantrol inspector ... making \$12 on haur. I like my jab very much. We're very busy and I am warking o lat af avertime getting paid time and a half". A third women wrote "I am warking at o

telecommunications campany as a project administratar. This is a mave up for me, and for the first time in my life I have business cards!". A faurth wha faund employment as a building department clerk noted "I gat the jab aut af 41 applicants. Start at \$9.65 per hour with full benefits with cantinuous increases thraughout the first year ta a tatal \$11.20 by July 1, 1997". By the graduatian ceremany an July 12, 1996, six additional wamen reparted employment:

engineering praject administratar

\$16.00 with benefits accounts payable clerk
\$10.00 with benefits busdriver
\$5.75
building department clerk
\$11.20 with benefits boakkeeper
\$16.00 with benefits

construction clerk

\$11.00 with benefits

During September, the waman employed as a busdriver taak a new position as an assistant teacher at a daycare center far an haurly wage of \$7.50. A participant was hired in November as a sarter in the plastics industry at \$7.70 per haur through the intervention of the human resources manager. Another waman who obtained a position as an accounting clerk at an environmental firm explained "My caurses in Quality and ISO 9000 helped with getting this jab". In the September repart, the REB Director reported that "the staff hove begun to contact participants to fallow-up an their education and job status, and to remind them to avail themselves of the services of the Career Center when they start their jab search. Thus far fifteen participants have terminated the program. Of these, thirteen have gotten jabs at an average wage af \$7.96 per haur, and the other two obtained emplayability enhancements".

During December, REB staff contacted participants by mail and by telephane to follow-up an their education and employment status, and to remind those not already emplayed to avail themselves of the jab assistance services of the Career Center of North Central Massachusetts. The December 1996 report recounted that thirty-one women had enrolled in the program, thirty women terminated positively and one additional positive termination was expected after December thirty-first. The MIS system showed that 96.7% had positive terminations. According to the MIS system, twenty women found new jobs for a sixty-seven percent entered employment rate. Nine women reported benefits. The average wages were \$9.50 per hour. Nine women received an "employability enhancement" (an increase in wages or a promotion received by participants employed at the beginning of the program) and completed the program objectives.

By early December, twenty-eight participants were working for an employment rate of ninety percent. The average hourly wage of these individuals was \$10.38 with a range from \$6.50 to \$18.00. One half of the employed (fourteen) worked as machine operatives and five (almost one out of six) found employment in administrative support positions. Two each were employed as professionals, managers, and service workers. Service, precision production, crafts and assembly work each employed one woman.

Seven of the nine individuals not in the labor force at the beginning of the program had found jobs paying hourly wages averaging \$7.86 per hour and ranging from \$6.00 to \$10.30 per hour. Two previously unemployed women returned to college full-time. The average hourly wage of the seven former welfare recipients was \$7.64. Employed in machine operative and precision positions, they earned from \$7.00 to \$10.50 per hour.

Upon completion of the training program, many of the participants experienced income gains. By December 1996, the incomes of fourteen of the twenty-eight employed women (50%) increased. The women who were working part-time at the start of the program increased their average hourly wages by more than twelve percent to \$8.88. Three of the women obtained full-time jobs and the fourth worked almost

the equivalent of full-time. Eight women who found employment in non-plastics industries increased their average wages by almost twenty-five percent to \$10.78 per hour, (wages ranged from \$6.50 to \$16.83 per hour). The thirteen enrollees employed in the plastics industry earned an hourly average wage of \$11.74. Wages of eight women employed upon enrollment averaged \$10.54 per hour, an increase of 32 percent. The seven individuals who received public assistance and four unemployed individuals joined nonsubsidized payrolls. Two women who left employment in the plastics industry for related employment in the electronics industry received hourly raises of \$4.70 and \$3.35 respectively.

Five women obtained employment in nontraditional occupations: applications engineer, engineering project administrator, mold polishing mechanic, painter and photo reprinter. The thirteen women employed in the plastics industry worked in the following positions: accountant, assembler, customer service representative, first shift supervisor, group leader, machine operator, mold polishing mechanic, quality assurance engineer, quality assurance leadperson, quality control inspector, set-up person, and sorter. Eight women found employment in nontraditional industries: accounts payable clerk, applications engineer, building department clerk, senior electronics quality control inspector, electronics solderer, engineering project administrator, and photo reprinter. Two individuals obtained positions for which their increased English language facility was an asset: library aide and senior teller. Other positions obtained included restorative gide and assistant teacher

The increase in wages accelerated lifestyles changes. Four single heads of household with ten children under age eighteen increased family incomes. One women purchased a home. Another participant commented "Now I can afford to pay all my bills. Before I was so behind on my bills. My rent was always late. My light bill was always high. Everything is all caught up. It makes me feel good" She added "My son had to take free lunch at school, and he wouldn't take it. He would rather go without lunch than take a free

lunch. Now that I'm working, I can give him lunch money every day. And it's good".

In summary, twenty-eight women were employed. The earnings of fourteen women increased. Since starting new employment, five women received wage increases and seven women were upgraded.

RECOMMENDATIONS:

- 1. Explain to participants the creation of job openings, new positions and replacement needs.
- **2.** Hold intensive job search workshops on reading the classifieds and cold calling.
- **3.** Hold workshops on career networking.
- **4.** Utilize multiple job search intermediaries including training instructors, placement services of training institutions, and the employment service.
- 5. Job develop for openings with benefits.
- **6.** Send brief profiles of graduates to employers in appropriate industries.
- **7.** Develop marketing tools for employers explaining the benefits of trained workers, i.e. increased productivity, improved retention, reduced training costs.
- **8.** Provide on-going support and follow-up services after the training is completed until placement is achieved.

Project Flow Evaluation

ACTIVITY	METRO SOUTH/WEST SDA	NORTH CENTRAL SDA
Jab Placement		
Jab search training	available at Career Center and ane-an-one nat farmal—ISP warkshap cavered	available at Career Center -nat farmal - part af averview BSSC gave an career develapment
resume preparatian	same schaals, available at Career Center and ane-on-one	available at Career Center
cald calling	INA* informational interviewing	INA*
Jab development		
SDA	ane-on-one	letter ta emplayers
training institution	same training institutions	INA
emplayment service	available—instatianed DET staff	available—co-lacated DET staff
emplayer advisary baard	na	yes - TRW
ather	na	guest speakers, mentars -Res-Tech, NYPRO
Job Placement		
training institution	cantractar pravided	па
SDA	available	available
emplayment service	available	available
employer advisary baard	na	yes
ather	na	newspaper (3), friend (1)
self	yes	participant applied at NYPRO
Placements (entered emplayment)	7 as af 06/30/96 10 as af 08/96 12 as af 09/17/96 16 as af 12/31/96 22 as af 03/06/97 1. (unemplayed electrician - high schaal grad) - Chief Maintenance Engineer, (electrical appliance servicer apprentice) large hatel \$11.50 hr full benefits earnings thraugh faurth quarter, 1996-\$21,892.59 2. (unemplayed manager) technical suppart specialist, developer af prepackaged medical saftware-\$43,000 per yr., full benefits 03/19/96 - \$12.20 as of 06/30/96 - \$13.01 as of 09/17/96 3. (faad preparatian warker) general repairer tire campany at \$6.00 09/04/96 4. (not in wark farce -high school grad) - presentatian campany -hand painter \$12.02 08/19/96 earnings thraugh faurth quarter, 1996-\$4,629.00 5. (high schaal grad -farmer pre-printing stripper at \$12.00 hr) - stripper at printing campany -	ta lack of work
*INA=infarmation not available	\$13.50 04/29/96 earnings through faurth quarter, 1996-\$20,447.79	received jab upgrade

ACTIVITY

METRO SOUTH/WEST SDA

6. (former agricultural worker - high school grad)-order filler, mailing services company at \$7.80 10/14/96

earnings through fourth quarter, 1996-\$2,658.92

7. (high school grad -former plumber's helper at at \$9.00 hr.)

earnings through fourth quarter, 1996-\$6,895.33 line supervisor temporary help services company at \$8.50 02/23/96

8. (11th grade -unemployed - former driver at \$7.10 hr) hand sewer at potentiometers manufacturer at \$7.50 08/05/96 company - plastics industry - \$24,000 yr started 01/15/96 \$11.54 benefits - \$12 with benefits at \$7.50 08/05/96

earnings through fourth quarter, 1996-\$5,993.85

9. (bilingual, counterperson at fast food store, college graduate abroad) policyholder -information clerk, insurance company at \$8.17 10/01/96 10. (high school grad -counselor at \$8.46) automotive maintenance equipment servicer, tire

company at \$8.00 07/08/96 earnings through fourth quarter, 1996-\$4,050.00 11. (AFDC, 11th grade, last employed 1989) metal-fabricating-shop helper, manufacturer of

metal-fabricating-shop helper, manufacturer of diagnostic enzymes and biochemical products \$10.94 05/28/96

12. (AFDC, high school grad - no work history) tire repairer at automotive services division of major national retailer at \$7.50

NORTH CENTRAL SDA

4. (bilingual, age 37, 11th grade, 3c) P.T. file clerk promoted to FT senior teller, bank at \$9.00 hr. 5. (age 52, married, unemployed QC inspector at \$8.50)-electronics senior quality control inspector, electronics company-@\$9.69 hr. \$12 by 07/12/96 earnings through fourth quarter, 1996-\$33,306.05

6. (age 44, 1 yr community college, 1c, administrative assistant) customer service representative, plastics company - plastics industry - \$24,000 yr started 01/15/96 \$11.54 benefits - \$12 with benefits as of 07/12/96

7. (AFDC, mother of 5, unemployed since 1993) mold polishing mechanic at \$7.21 hr, manufacturer of precision steel injection molds for plastic industry 8. (PT counter helper at sandwich shop at \$5.25) first placement as bus driver \$5.75 (07/96), second placement assistant teacher at day care center at \$7.50 per hour (12/12/96)

Placements (entered employment)

13. (AFDC, 11th grade, 1child, former cashier) mold carpenter at builder at \$14.04 06/24/96 14. (college grad, AFDC, 2c, former chemist) salesperson general merchandise \$12.00 06/10/96

15. (high school grad, former data entry clerk) computer programmer software company \$20.00 07/22/96

earnings through fourth quarter, 1996-\$8,593.99
16. electronics technician at temporary employment

services agency at \$11.00

earnings through fourth quarter, 1996-\$616.00

17. diesel mechanic at service station at \$8.50
18. admissions evaluator at vocational high school at \$12.00 01/01/97

19. (AFDC, 12th grade,1c clerk) route clerk at courier service at \$9.00

20. (AFDC, 12th grade, 2C, no work history) electronics tester at communications company at \$11.00

21. (12th grade, 5c, sales associate p.t.) component assembler at miscellaneous manufacturer at \$7.00 10/31/96

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- 9. (PT bookkeeper at \$9.65)-computerized accounts payable travel accounting in environmental firm at \$10 per hour-started 06/19/96 at \$9.62
- 10. (secretary facing layoff at \$9.00 hr.) building department clerk in construction firm at \$11.20 per hour (DOT 201.362.010)
- started 06/05/96 quit 09/18/96
- 11. (bilingual) inter-library loan computer entry clerk at public library, \$8.80 hr.

12. (PT rehab aide at \$7.55) - healthcare restorative aide P.T. present earnings: \$8.25 - started at \$7.55 - 2 raises since start of program-received raise of \$0.55 an hr. 13. (assistant foreperson at \$11.50, started in plastics industry in 1985 at \$5.00) promoted to division supervisor, first shift \$11.70 plastics industry

14. (bookkeeper at \$13) accountant \$36,000 started at \$22,000 - 3 raises since started program in injections molding industry -plastics industry - pay increase to \$16 - 10/95 \$3,000 merit 04/96 title changed to accountant with \$3,000 merit 10/96 \$3,000 merit

ACTIVITY	METRO SOUTH/WEST SDA	NORTH CENTRAL SDA
	22. Second quarter, 1996 \$83.74 courier service 23. 1996 four quarters: \$21,953.21 at temporary help service	15. (bilingual, PT ticket marker at \$5.65 in a closing retail store) started 02/20/96 electronic solderer \$6.50 hr. (DOT 726.685.010) electronics component manufacturer - job related - electronics earnings through fourth quarter, 1996 \$11,544.41 16. (unemployed AFDC since 1983) photo reprinter at \$7.00 hour printing company, 17. (unemployed AFDC since 1993) - electronics tester at large manufacturer of injection molding of engineered thermoplastics -started at \$9.00, raised to \$10.50 per hour -plastics industry 18. (unemployed since 1986, AFDC) FT sorter, manufacturer of precision steel injection molds for plastics industry -plastics \$6.00 hr (through Janice Pollock). 19. (AFDC - wage equivalent \$3.04 -unemployed since 1995, former waitress) - PT - 25 hrs - \$7.00 hr plus benefits at community hospital 02/13/96 earnings through fourth quarter, 1996 \$6,415.15 20. (unemployed since 1995 - former estimator assistant) FT painter at \$9.06 hr. 21.(engineer in plastics company - position in jeopardy no wage listed, wanted to take CAD/CAM) new position: applications engineer, manufacturer of transducers and gauges at \$35,000
(no change in employer)		EMPLOYED IN PLASTICS UPON ENTRY AND AT COMPLETION 1. (group leader \$10.80) - received salary increase of \$936 per year - now \$11.25 per hour 2. (machine operator, n.w.l.) 3. (QA Engineer \$18) 4. (set-up person \$12) 5. (QA leadperson \$12) 6. (bilingual plastics inspector @ 11.50-hr.) - had wage increase plus obtained new position as PT Spanish teacher at \$20 per 1.5 hour session - 4-6 hours per week at language center
Wages	\$12.20 as of 06/30/96 \$13.14 as of 08/30/96 \$10.38 as of 12/11/96 \$11.21 as of 01/14/96 \$10.59 as of 03/06/97	\$8.52 as of 12/31/95 \$11.24 as of 07/12/96 (self-reported) \$7.48 as of 08/30/96 \$7.48 as of 09/18/96 \$7.96 as of 10/23/96 \$8.36 as of 11/18/96 \$8.93 as of 12/31/96 \$9.50 as of 01/14/97

Project Flow Evaluation

OUTCOMES	METRO SOUTH/WEST SDA	NORTH CENTRAL SDA
Prior Work Experience	Number of enrollees:27	Number of enrollees:30
Employment by occupational classification	POST TRAINING Number of managers: Number of professionals: Number of technicians: 1 Number of sales: 1 Number of administrative support: 4 Number of service: 1 Number of precision production: 11 Number of machine operators: Number of unskilled laborers:	POST TRAINING Number of managers: Number of professionals: Number of technicians: Number of sales: Number of administrative support: Number of service: Number of precision production: Number of machine operators: Number of assemblers: Number of unskilled laborers:
Terminations	17 as of 12/11/96 18 as of 01/14/97 28 as of 03/06/97	17 as of 11/18/96 30 as of 12/31/96 31 as of 02/28/97
TOTAL ENTERED UNSUBSIDIZED EMPLOYMENT	15 as of 12/11/96 16 as of 01/14/97 17 as of 01/23/97 22 as of 03/06/97	14 as of 11/18/96 16 as of 12/31/96 20 as of 01/14/97
Entered Employment Rate	79% as of 03/06/97	67% as of 03/06/97
ntered unsubsidized employment in occupation or which trained	15 as of 12/31/96 20 as of 02/28/97	9 as of 12/31/96
Entered unsubsidized employment in occupation related to training	0	4
Entered unsubsidized employment in industry for which training received	17 as of 01/23/97	7
Entered unsubsidized employment in industry related to training received	2	3
Entered unsubsidized employment in unrelated occupation and industry	1	5
Entered Employment < 20 hrs per week	0	0
Entered subsidized employment	0	0
Employability enhancement	1 as of 12/31/96 3 as of 03/06/97	2 as of 06/30/96 3 as of 11/18/96 9 as of 12/31/96 10 as of 03/06/97
Completed Program Objective	1 as of 03/01/96 2 as of 03/06/97	9 as of 01/14/97 10 as of 03/06/97
Employment rate	82% of terminations as of 02/28/97	84% of terminations as of 02/28/97 (included 6 employed in plastics industry upon enrollment and upon program completion.)

OUTCOMES	METRO SOUTH/WEST SDA	NORTH CENTRAL SDA
Other Terminations Beyond Program Control	1 moved, 1 loss of contact	1 moved
(i.e moved, illness, incarceration)	1 medical leave	
Average pre-training wage	\$9.87 (16 individuals reported)	\$9.68 (20 individuals reported-including employed)
Average starting wage	\$10.59 as of 02/28/97 (22 individuals)	\$9.50 as of 01/14/97 (20 individuals)
Average wage after 13 weeks		
Average wage after 52 weeks		
Number receiving post-placement raises	3 as of 03/03/97	7 as of 01/14/97
Wages with benefits	16 as of 01/14/97 21 as of 03/06/97	5 as of 11/18/96 9 as of 9/14/97
Wages plus health insurance benefits	1 as af 03/06/97	. 5 as of 11/18/96
Placement Retention rate	followup not complete	followup not complete
At 52 week followup, employed with same past-training employer	2 as of 03/13/97	13 as of 03/13/97
At 52 week followup, employed with same post-training employer in different position, but same occupation	ng	
At 52 week followup, employed with same post-training employer in different occupation		
At 52 week followup, employed with different post-training employer	1 as of 03/13/97	1 as of 03/13/97
At 52 week followup, employed with different post-training employer in same occupation		
At 52 week followup, employed with different past-training employer in different occupation		
At 52 week followup, returned to school		
At 52 week followup, unemployed		
At 52 week followup, income increased	3 as af 03/13/97	7 as of 03/13/97
Lifestyle improvements, i.e. purchase of a car, improved living quarters, etc.		participant bought a home in central Massachusetts

The Participants' Perspective The Massachusetts Placement Evaluation Form

Over one-fifth of the individuals enrolled in the North Central Service Delivery Area (SDA) had returned their *Placement Evaluatian Farms* by November 12, 1996. These respondents represented one-half of the entered employments as reported in November, 1996. The participants rated statements on a five point scale: Strongly Agree, Somewhat Agree, Neither Agree Nor Disagree, Somewhat Disagree, Strongly Disagree. An analysis of the responses indicated that, as a group, the respondents were satisfied with the outcomes of their training.

- Over eighty percent of the respondents affirmed that the training program was relevant to their present job.
- Over two-thirds of the respondents agreed that the training program had made them employable. Two respondents strongly agreed that the program had improved their employability.
- One-third of the respondents strongly agreed that they were working in jobs directly related to their training. Twenty percent strongly agreed that they were working in a job somewhat related to their training.
- One respondent strongly agreed that she was working in an occupation related to the plastics industry for which she trained. Another respondent affirmed that she was working in an industry related to her training.
- Over seventy percent stated that they were receiving health insurance benefits from their employer.
 One individual strongly disagreed. Two individuals noted that health insurance was optional and that they had family coverage.
- Over eighty percent of respondents affirmed that they belonged to their employer's pension plan, while the remainder did not belong to a pension plan.
- The average wage of the six respondents reporting earnings was \$12.32 per hour, ranging from \$8.25 to \$17.18. This was well above the targeted wage of \$7.00 per hour. The average hourly starting wage reported was \$10.21, with a range from \$5.00 to \$15.27. Three respondents indicated they received

raises and three reported a job upgrade since starting the training program. In summary, the seven respondents reported positive training program outcomes, including wages and job upgradings.

The participants were asked to rate the benefit of various job search methods for finding employment.

- Self-initiated job search activities were viewed favorably by program participants. Three respondents were very satisfied with the results of filling out applications. Two participants indicated they were very satisfied with the outcomes of approaching the employer directly. Two respondents were very satisfied sending out resumes. Placing or answering classified ads was rated as a very satisfactory job search method by two participants.
- Instructors were rated as the most effective intermediaries. Two participants were very satisfied with the leads and referrals from training instructors. One respondent rated the leads and referrals from friends as very satisfactory in her job search. Three participants were very dissatisfied with the lack of leads and referrals from mentors.
- The rankings of the effectiveness of employment institutions were tepid. Two participants were somewhat satisfied with the assistance of the public employment service agency. One participant was somewhat satisfied with the efforts of a private employment agency. Another participant was very satisfied with the resources of the service delivery area agency.
- Four respondents reported the actual method used to obtain employment. Three found jobs through newspaper advertisements and one through the referral of a friend.

Five of the six respondents (83%) would definitely recommend the training program to a friend. The remaining participant would probably recommend the training program to a friend.

COMMENTS OF RESPONDENTS

- Thank you far this appartunity to enhance my job search skills.
- Additionally, when I explared jabs in this field [plastics] they were all very law paying (\$6.50), and they were requiring experience.
- Getting a jab was mast valuable ta me
- Wamen in Plastics led to this new position due to my increased knowledge in the field and continuing education.

Placement Evaluation Form

OCATION:			LAST 4 DIGITS OF SOCIAL SECURITY NUMBER:				
Directions: Read each item carefully. Do you agree to your point of view. 1 = Strongly Agree 2 = Somewhat Agree 3 = Neither Agree Nor Disagree 4 = Somewhat Disagree 5 = Strongly Disogree 1. The training program helped me become more employable.	e or disogree with the l		statements?		ircle the res		
2. The training course was relevant to my present job.	STRONGLY AGREE	1	2	3	4	5	STRONGLY DISAGREE
Question Two: Do you agree or disagree with the A Please circle the response which most closely co the number which best describes your belief. 1 = Strongly Agree 2 = Somewhat Agree 3 = Neither Agree Nor Disagree 4 = Somewhat Disagree 5 = Strongly Disagree			Directions: F	Read each	item carefu	lly. Using th	e scale shown below, circle
1. I am working in a job directly related to my training.	STRONGLY AGREE	1	2	3	4	5	STRONGLY DISAGRE
Title of job							
I am working in a job somewhat related to my troining. Title of job	STRONGLY AGREE	1	2	3	4	5	STRONGLY DISAGREE
I am working in the industry for which I was trained. Title of industry	STRONGLY AGREE	1	2	3	4	5	STRONGLY DISAGREE
4. I am working in on industry related to the industry for which I was trained. Title of industry	STRONGLY AGREE	1	2	3	4	5	STRONGLY DISAGREE
5. I am receiving health insurance benefits from my employer.		1	2	2	4	ζ	CTDUNGIA DICYCDE
I belong to my employer's pension plan.	CTPONGLY AGREE	1	2	3	1	5	STRONGLY DISAGREE STRONGLY DISAGREE
I am presently earning:			2	J	7	J	STRONOLI DISAUREL
I started my job earning:							
I hove received number of raises since I started) or com	inlated the	training or	ogram (cho	·k
						_	
I have received a job upgrade: (yes) (no)	stille I statted title I	ranning b	nogram (cne	uk	or comple	iea ilie main	ing program (check).

Placement Evaluation Form

Question Three: How beneficial were each of the following job search methods for finding your job?

Directions: Read each definition. Please circle the response which most closely corresponds to your point of view.

- 1 = Very Satisfied
- 2 = Somewhat Satisfied
- 3 = Neither Satisfied Nor Dissatisfied
- 4 = Somewhat Dissatisfied
- 5 = Very Dissatisfied

1. Approaching the employer directly.	VERY SATISFIED	1	2	3	4	5	VERY DISSATISFIED
2. Sending out resumes	VERY SATISFIED	1	2	3	4	5	VERY DISSATISFIED
3. Filling out applications	VERY SATISFIED	1	2	3	4	5	VERY DISSATISFIED
4. Placing or answering classified ads.	VERY SATISFIED	1	2	3	4	5	VERY DISSATISFIED
5. Getting leads from relatives or friends.	VERY SATISFIED	1	2	3	4	5	VERY DISSATISFIED
6. Getting leads and referrals from training instructors.	VERY SATISFIED	1	2	3	4	5	VERY DISSATISFIED
7. Getting leads and referrals from mentors.	VERY SATISFIED	1	2	3	4	5	VERY DISSATISFIED
8. Using the public employment service agency.	VERY SATISFIED	1	2	3	4	5	VERY DISSATISFIED
9. Using a private employment agency.	VERY SATISFIED	1	2	3	4	5	VERY DISSATISFIED
10. Using the resources of the service delivery area.	VERY SATISFIED	1	2	3	4	5	VERY DISSATISFIED
I found my job through			_ or by				·

Question Four: Would you recommend THIS training program to a friend?

I need assistance in finding the right job for me. (yes) (no) _____.

Directions: Read each definition. Please circle the response which most closely corresponds to your point of view.

- 1 = Definitely Not
- 2 = Probably Not
- 3 = Might or Might Not
- 4 = Probably
- 5 = Definitely

Thank you very much for taking the time to complete this survey.

Your responses are important to the Women's Bureau, United States Department of Labor.
Feel free to add below any additional comments on this program.



Summary

Because of o log in reporting, it is premoture to evolute the full import of the progrom. As of lote December, 1996, o positive impact on thirty of thirty-one porticiponts in the North Centrol SDA hod been demonstrated. By Morch 1997, ninety-three percent of the progrom completers were employed. Eighty-eight percent of those women who completed training in the Metro South/West progrom hod entered employment.

Recruitment

In the recruitment phose of the project, the troining sponsors appear to hove been ombitious. Each SDA proposed to extend outreoch and recruitment efforts to one hundred-fifty women. This number was almost equal to one-half of the total Metro South/West SDA femole porticiponts (286) enrolled in JTPA Title II-A training between July 1995 and June 1996. The total number of North Centrol SDA registered femole trainees between July 1995 and June 1996 was one hundred seventy-five. Fifty-four women ottended the recruitment open house at the Leominster Center for Technicol Education in September. Eighteen of the thirty women interviewed by the Metro South/West Case Monoger by October were occepted to the progrom. Eoch SDA engaged in extensive recruitment to encourage women to consider nontraditional coreers. The most successful methods of recruitment included newspaper advertisements, reverse referrols from odmissions representatives to the training sponsor, orea employers, the public welfore office, the service delivery oreo, and the stote employment office.

Retention

Eoch SDA projected that one hundred women would be provided with intoke, counseling, and assessment. In the grant proposal, it was inferred that these services would be provided before women were enrolled in the project. The North Central SDA stated that thirty-five individuals would be interviewed and selected. Thirty-seven women were interviewed, thirty-one enrolled in the program, and six were selected as alternates.

The cose monager of the Metro South/West SDA provided individual counseling to the porticipants in the nontroditional occupations (NTO) training project. Twelve porticipants were assessed using the Systems for Assessment and Group Evaluation (SAGE). A series of workshops was held in each SDA to help the women prepare for the challenge of working in a nontroditional environment. The group workshops covered cultural borriers, time and stress management, returning to school, self-esteem, industry trends, and communications. Sixteen attended these workshops in the Metro South/West. Seventeen women completed additional sexual horossment, assertiveness, and health and safety workshops.

Twenty-seven (87 % of the enrollees) North Centrol porticipants completed the series of workshops. The women strongly recommended the self oworeness ond self-esteem workshops. The mentoring component was particularly difficult to implement because of the small pool of women employed in nontraditional occupations who were willing to make the time commitment. The rotio of mentors to proteges was one to four. Some porticiponts hod positive mentoring experiences. One respondent reported that the mentor had chonged her life. Two porticiponts obtoined employment ot a company for which their mentor worked. Each SDA projected that fifty women would transition from assessment to troining and education. Twentyeight MSW women participated in the nontroditional occupations (NTO) training program spansored by the Women's Bureou. Between July 1, 1995 and June 30, 1996, on additional twelve women porticipoted in SDA sponsored nontroditional training. In the North Centrol SDA project, thirty-one registronts enrolled. However, none of the remoining SDA registrants enrolled in SDA-sponsored nontroditional training.

Eoch SDA was prepared to provide prevacational training. The majority of the participants did not need remedial education. One MSW participant obtained her General Educational Development (GED) Equivalency Certificate. Another participant in the North Central project completed remedial training in algebra.

Eoch SDA onticipated that thirty women, aged 22 and older would enroll in the program. The MSW SDA enrolled twenty-eight women. The North Central REB enrolled thirty-one, one more than planned.

The Crafts, Repair and Technologies Program in South Suburban Boston Skills Training

The Metro South/West proposed to enroll thirty women in individualized customized training including outomotive technology, electrical, construction, lob and electronic technologies (biotech, environmental, and health), small appliance repoir, and optometric/ophtholmic monufocturing, service, and repoir. Thirty enrollments were expected in outomotive technology (5), lab and electronic technologies (5), small appliance repoir (5), optometric/ophtholmic repair (5) and construction (10).

The Metro South/West SDA provided training opportunities to twenty-eight women in nontroditional programs. Enrollments included electrical, electronics/communications training (3 women), outomotive mechanics (4), small appliance and electrical repair (7), loboratory technologies (5), and carpentry (1). The remainder enrolled in nontraditional programs including data processing (4) [the source of one-fourth of SDA services employment], graphics and printing equipment (2), and truck driving (1). The computer facilities training program, although traditional, offered high wages in occupations with fovorable outlooks. The training program retention rate was ninety-six percent, much higher than the seventy percent retention rate of non participants.

Between July 1995 and June 1996, five percent (12 women) of the non porticiponts received nontroditional training. Ninety-two percent completed training in information sciences and systems (1), computer maintenance technology (1), heating, oir conditioning, and refrigeration (1), engineering/related technology.

nology (2), biotechnology research (2), and computer installation and repair (1).

In the proposal, the North Central SDA anticipated that forty women would participate in the career path component. Thirty-one women enrolled.

The North Central REB proposed to train 30 women of at least twenty-two years of age for occupations in the plastics industry. Thirty-one women enrolled in the Plastics Technology/Technician program. Emphasis was placed on developing transferrable skills in a variety of nontraditional occupations in the plastics industry. The program plan was to train women for mold polishing, machine tools programming, machining, quality assurance, purchasing and sales positions. The participants rotated through hands-on workshops on machining, computer-assisted design, and computer processing. The women participated in moldpolishing seminars. The Phase Two training retention rate of ninety-seven percent compared favorably to a sixty-five percent training retention rate for non-NTO enrollees.

Utilizing the individual referrals to training institutions, twenty-one women enrolled in courses on injection molding, polymeric materials, statistical process control, computer applications, introduction to ISO 9000, total quality management, and wire electronic discharge machining.

Placement

In the grant proposal, the Metro South/West SDA aimed to place seventy-five percent of the program trainees (23 women) in nontraditional occupations. By March 1997, twenty-two participants had entered unsubsidized employment. Eighty percent of the training completers found training-related employment. Three employability enhancements were recorded. (Cross matching with the quarterly wage and employment status database revealed that the participant who dropped out of the program had been employed at two temporary help agencies and earned \$21,953 between the second quarter of 1995 and the fourth

quarter of 1996.) The proposal projected an entered employment rate of seventy-seven percent for graduates, and was successful in reaching an entered employment rate of seventy-nine percent. The MSW SDA projected an employment retention rate of ninety percent. As of early March 1997, employment retention rates had not been calculated because follow-up was incomplete. Follow-up was being conducted through mail surveys, the MIS reports of the Division of Employment and Training, and electronic tracking through the Commonwealth's Unemployment Insurance Wage database.

By early March, almost eighty percent of the Metro South/West enrollees (94% of those who had completed training) had obtained employment as:

technical support specialist computer programmer carpenter, mold printing stripper hand painter salesperson, general merchandise admissions evaluator electrical appliance servicer-apprentice electronics technician metal-fabricating-shop helper line supervisor policyholder information clerk automotive maintenance equipment service order filler hand sewer tire repairer general repairer (automotive) automobile mechanic route clerk component assembler home attendant electronics tester

As a comparison, only fifty-five percent of the non-NTO participants enrolled in JTPA Title II-A classroom training had entered employment.

Wages

The Metro South/West grant proposal anticipated starting wages between \$9.00 and \$21.00 per hour with benefits. The average hourly starting wage of the twenty-two participants who completed training was \$10.59, ranging from \$6.00 to \$20.91. Hourly placement wages by occupation were:

technical support specialist	\$20.91
computer programmer	\$20.00
carpenter, mold	\$14.04
printing stripper	\$13.50
hand painter	\$12.92
salesperson, general merchandise	\$12.00
admissions evaluator	\$12.00
electrical appliance	
servicer-apprentice	\$11.50
electronics tester	\$11.00
metal-fabricating-shop helper	\$10.94
route clerk	\$9.00
line supervisor	\$8.50
policyholder information clerk	\$8.17
automobile mechanic	\$8.00
automotive maintenance	
equipment servicer	\$8.00
order filler	\$7.80
hand sewer	\$7.50
tire repairer	\$7.50
component assembler	\$7.00
home attendant	\$6.50
general repairer (automotive)	\$6.00

The grant proposal anticipated wages of automotive graduates ranging from \$9 to \$12 per hour with benefits. The four automotive graduates eamed from \$6.00 to \$8.00, wages somewhat lower than the Massachusetts median entry level hourly wage of \$8.50 for certified auto mechanics. Wages of \$10 to \$15 per hour with benefits were anticipated for electrical graduates. The four graduates of the electrical/electronic equipment program were paid between \$6.00 and \$11.50 per hour. The wages for construction workers were projected as \$10 to \$21 per hour with benefits. The graduate of the carpentry program earned \$14.04 per hour. The proposal predicted hourly earnings of \$10 to \$15 with benefits for laborations.

ratory and electronics technicions. This was consistent with the \$12.00 eamed by the biological technology program groduate and the \$10.94 per hour earned by the biomedical engineering groduate. Two was who completed the electrical/electronics/communications program generated hourly earnings of \$7.50 and \$11.00. The groduates of the electrical/equipment repair program earned \$7.50 and \$11.00 per hour, approximating the predicted \$9 to \$12 per hour range.

The MSW groduates who found employment by early Morch, 1997 received an overage hourly woge of \$10.59, ronging from \$6.00 to \$20.91 per hour. Two individuals employed full-time upon progrom entry increosed their average hourly woges by over twelve percent to \$8.07. The nine women with o recent work history earned on overage of \$12.00 per hour, more than o one percent increose over their 1995 woges.

Of the previously employed participants whose wages increosed greater than ten percent, two completed courses of Clork University, one in business systems networking and one in grophics and printing equipment operation. The two were high school groduates. They obtained positions as a computer programmer and printing stripper. Previously, they had worked as a data of the control of the control

Nine former welfore recipients earned an overage of \$10.39 per hour. Six recipients hod wages above \$10 per hour as a pointer, o metal fabricating-shop helper, a mold corpenter, on electronics technician, on electronics tester and o general merchandise solesperson (of biomedical glossware). The nine recently unemployed individuals earned on hourly average wage of \$12.15, o two percent increase from their 1995 overage hourly wage. The porticipant with no prior work history earned \$6.00 per hour. The ten women who found employment in nontraditional occupations earned on average hourly wage of \$10.80. These positions included technical support specialist (\$20.91), corpenter, mold (\$14.04), strip-

per (\$13.50), electrical oppliance servicer-apprentice (\$11.50), metal-fobricating-shop helper (\$10.94), line supervisor (\$8.50), outomotive maintenance equipment servicer (\$8.00), tire repairer (\$7.50), and general outomotive repoirer (\$6.00). Cross motching with the quarterly wage and employment status database revealed that three graduates had completed four quarters of employment. The quarterly wage and employment status database revealed that three graduates had completed four quarters of employment. The quarterly wage and employment status database revealed that an employment is participant who changed her post-training employer increased her overage hourly wage to \$16.93. Another woman within two quarters earned \$13.24, on increase of \$1.74 obove her post-training entry wage.

The average hourly woge (\$10.59) eorned by progrom completers was almost thirteen percent greater than the \$9.40 average hourly wage onticipated by progrom porticipants mid-way through training in June 1996.

The increose in woges permitted changes in lifestyles. One hundred percent of the placed women (22) entered employment with benefits. The ten children of the eight single heads of household benefitted from the increosed family income.

The non-NTO porticipants who had enrolled in JTPA Title II-A classroom troining and had entered employment reported average hourly wages of \$9.78. The reported eornings (\$10.59) of the women in the NTO project who found employment were higher than those who had not porticipated (\$9.78). Eighty percent of the troining completers found o training-reloted job compored to the ninety-five percent of the non-NTO porticiponts in Title II-A troining. Of the twelve non-NTO women enrolled in information sciences ond systems, computer mointenance technology, heating, oir conditioning, and refrigeration, engineering/reloted technology, biotechnology research, ond computer installation and repair, nine entered employment of on overage hourly wage of \$8.71. Eighty-nine percent (8) of these non-NTO completers found troining related positions.

Women in Plastics in North Central Massachusetts

The North Central SDA grant proposal projected that twenty-three women, including women employed in plastics of the start, would be placed (a rate of seventy-six percent). The number recorded by MIS in unsubsidized employment by early January was twenty, o sixty-eight percent entered employment rote. Ten women completed the progrom with "employobility enhancements", for a positive termination of thirty women. The MIS system showed that 97% hod positive terminotions. The MIS system confirmed nine groduotes (38%) entered employments with benefits. Telephone follow-up in early December found twenty-eight participants working for an employment rote of ninety percent. Cross motching with the guarterly woge and employment status database revealed that seven participants completed four post-training quorters of employment. Six women who were employed upon enrollment in the plostics industry remained employed with their original employers. The employment retention rate has not been colculated as sufficient time has not elapsed and follow-up was not complete.

The gront proposol expected women to be eligible for employment in mold polishing, mochine tools programming, mochining, quolity ossuronce, purchosing ond soles. Initial MIS recorded placements were:

applications engineer
secretary
customer service representative
bookkeeper
quality control inspector
inspector
legal secretary
ossembler
nursery school assistant
injection molding mechanic
mirror pointer
electronics tester
photofinishing loborotory worker

file clerk
magnetic tape winder
tablet-making-machine operator
checker
stock control clerk
cashier
production supervisor
ve percent of the entered employ

Forty-five percent of the entered employments were training-related. December telephone follow-up revealed one half (14) of the total worked as machine operatives and almost ten percent (5) worked in administrative support positions. Two each were employed as professionals, managers, and service workers. Service, precision production, crafts and assembly work each employed one woman.

Five women obtained employment in nontraditional occupations including: applications engineer, engineering project administrator, mold polishing mechanic, painter and photo reprinter. The thirteen women employed in the plastics industry worked in the following positions: accountant, assembler, customer service representative, first shift supervisor, group leader, machine operator, mold polishing mechanic, quality assurance engineer, quality assurance leadperson, quality control inspector, set-up person, and sorter. Eight women found employment in nontraditional industries: accounts payable clerk, applications engineer, building department clerk, senior electronics quality control inspector, electronics solderer, engineering project administrator, and photo reprinter.

Forty-seven percent of the non-NTO women enrolled in Title II-A classroom training entered employment. Ninety percent of the placements were in training related jobs. There were no nontraditional placements among the non-NTO registrants.

Wages

The proposal predicted that post-training hourly entry wages in North Central Massachusetts would range from \$7 to \$10. The preliminary January MIS report recorded average wages of \$9.50 per hour. MIS reported hourly entry wages ranging from \$5.50 to \$16.83:

applications engineer	\$16.83
secretary	\$15.00
customer service representative	\$12.00
quality control inspector	\$12.00
production supervisor	\$11.70
legal secretary	\$11.00
electronics tester	\$10.50
assembler	\$10.30
bookkeeper	\$9.62
cashier	\$9.50
inspector	\$9.06
checker	\$8.80
nursery school assistant	\$7.50
injection molding mechanic	\$7.21
mirror painter	\$7.00
photofinishing laboratory worker	\$7.00
file clerk I	\$7.00
magnetic tape winder	\$6.50
stock control clerk	\$6.00
tablet-making-machine-operator	\$5.50
·	

Seven of the nine individuals not in the labor force at the beginning of the program found jobs paying hourly wages averaging \$7.86 and ranging from \$6.00 to \$10.50. Two women not in the labor force upon enrollment returned to college full-time. The average hourly wage of the seven former welfare recipients was \$7.64. Employed in machine operative and precision positions, they earned from \$7.00 to \$10.50 per hour.

After completing the training program, many of the participants experienced income gains. By December 1996, the incomes of fourteen of the twenty-eight employed women (50%) increased. The four women who were working part-time at the start of the program increased their average hourly wages by more than twelve percent to \$8.88. Three women obtained full-time jobs and the fourth worked almost the equivalent of full-time. Seven individuals who received public assistance, along with four unemployed individuals, joined payrolls. The four women unemployed upon enrollment earned an average hourly wage of \$9.02, a four percent increase over their

prior earnings. Eight women employed upon enrollment earned an average of \$10.54 per hour, an increase of thirty percent above prior hourly earnings. Two women, who left employment in the plastics industry for related employment in the electronics industry, received hourly raises of \$4.70 and \$3.35 respectively. Eight women, who found employment outside of the plastics industry, increased their average hourly wages by almost twenty-five percent to \$10.78 (with wages ranging from \$6.50 to \$16.83 per hour). Thirteen enrollees employed in the plastics industry earned an hourly average wage of \$11.74.The average hourly wage (\$9.50) earned by program completers was five percent less than the program participants anticipated average wage (\$10.00).

The increase in wages accelerated lifestyles changes. Nine women who entered employment reported receiving jobs with benefits. Four single heads of household with a total of ten children under the age of eighteen increased family incomes. One women purchased a home in central Massachusetts.

The average hourly entered employment wage of non-NTO participants who completed JTPA Title II-A training was \$8.03, over 15% lower than the average hourly wage of \$9.50 recorded for the program participants.

Terminations and Completions

Each SDA expected thirty women to complete the training program. By the end of December 1996, twenty-five women in the Metro South/West program had completed their training (one woman moved). The positive termination rate was eighty-nine percent. One woman continued her education in an associate's degree program for electronics technology. Another woman who moved away subsequently found employment.

The North Central SDA anticipated thirty terminations. Thirty women completed successfully the group expo-

sure to plastics technology. By March, thirty women had terminated the program, one of whom moved out of state. The North Central positive termination rate was ninety-seven percent. Of the ten women who completed their program objectives, but did not enter employment, eight were still employed at their original company and had received neither upgrades nor salary increases. These women felt they were in a better position to be promoted when the opportunity arose. Two women returned to college degree programs full-time. All thirty women who completed the Plastics Technicians program believed that their employability had been enhanced.



Findings and Recommendations

Findings and Recommendations

1. Multiple outreach strategies, including public service announcements, were used extensively to ensure participation rates in effective programs

The Metro South/West and North Central SDAs used diverse and multiple methods of recruitment. All MSW porticiponts were recruited from sources other thon the troining sponsor intake, including reverse referrols from troining institutions to the troining sponsor. Other fruitful sources were the welfore office ond the employment service. Less thon ten percent of the North Central Massachusetts participants enrolled in response to referrols from the local service delivery orea. One-half of the enrollees leamed of the program from classified ods and newspoper articles. Mony women were not in regulor contoct with employment ond troining ogencies. Utilizing the medio (newspopers) was on effective method of reaching women not in the full-time lobor force (displaced homemokers, welfare recipients, and port-time workers.) Onequarter of the participonts were informed of the progrom by employers. Employers were used effectively in the recruitment process.

RECOMMENDATIONS

- 1. Develop morketing tools exploining the benefits of the program for distribution to schools, employment and troining ogencies, and community based organizations.
- Well in odvonce of the start of the troining progrom, torget employment and troining ogencies and educational institutions with omple fliers on nontraditional occupations and announcements of planned troining.
- **3.** Well in odvonce of the stort of the troining progrom, soturate locations where women congregate (supermarkets, loundramots, beauty solons, fitness centers, etc.) with fliers on nontraditional accupations and onnouncements of planned training.
- **4.** Well in odvance of the start of the training program, conduct informational seminors on nontroditional occupations of secondary schools and employment and training agencies. Include discussions of

- women's hesitonce to porticipate in nontroditional training and the possible bioses and ottitudes of significant male influencers.
- **5.** Before the troining program storts, inform oppropriate staff in local training ogencies about the program and distribute adequate fliers.
- **6.** Before the troining program starts, distribute fliers on nontroditional occupations to admissions offices of proprietory schools, community colleges, and colleges.
- 7. Use employers as port of the recruitment process by soliciting referrols of women who need training for coreer odvoncement or whom the employer would hire if they had training. Contact existing employers in industries in which nontraditional occupations are prevalent.
- **8.** Utilize intoke staff os educotors about nontraditional occupations and distributors of information on nontraditional occupations.
- **9.** Utilize employment and training ogencies such as state employment services to identify women interested in nontraditional occupations and to develop an oworeness of nontraditional occupations and training resources in job seekers.
- 10. Utilize proprietory schools and community colleges to identify individuals who are interested in training for nontraditional occupations but are without adequate financial resources. Develop reverse referrals from the schools to the training spansor.
- 11. Utilize public assistance agencies and community bosed organizations to identify women interested in nontraditional occupations and to develop on owareness of nontraditional occupations and training resources
- **12.** Use paid newspoper ods and newspoper orticles in local daily and weekly newspopers to publicize training programs for nontraditional occupations.
- **13.** Provide copy and video clips to local television stations (including cable) to broadcost the availability of training for nontraditional occupations as part of public service announcements.
- **14.** Use public service announcements (copy and oudio tope) and guest appearances on local radio stations to broadcast availability of training for nontroditional occupations.

- **15.** Recruit outside the service delivery areo or local office oreo. Provide outreach to potential commuters within the lobor market areo and surrounding service delivery areas.
- 2. Training programs were beneficial to workers employed part-time, employed at temporary help agencies or facing layofs. Early interventions reduced the duration of joblessness.

In Mossochusetts in 1994, forty-one percent of employed women worked port-time. Of the five hundred forty-nine thousand femole part-time workers, olmost one-quorter (127,000) usually worked full-time. Six thousand (2% of employed women) worked part-time because of slock work or unfovorable business conditions

The two Metro South/West women employed porttime upon enrollment increased their overage weekly wages over twenty percent to \$8.00 with work weeks of 30 and 40 hours respectively.

In the North Centrol program four porticiponts were employed port-time upon enrollment. Three women found full-time employment upon troining completion. They increased not only the number of hours they worked, but also their overage hourly earnings to \$7.87, olmost o ten percent increose. Two employed women who entered the program foced lovoffs and subsequently lost their jobs. Continuing with the troining, they regained employment os an electrical solderer of \$6.50 per hour and on opplications engineer ot \$35,000 per yeor. An unemployed womon who entered the progrom accepted employment shortly after the program began. Fortunately, she continued with the troining because she subsequently lost the job. Sticking with the program, she regained employment.

RECOMMENDATION

- 1. Advertise the program's availability to women seeking full-time employment. Do not exclude women facing layoffs and reduced hours.
- 3. Vocational and career counseling were integrated into training programs because some job seekers were not sufficiently informed about wages and occupational outlook.

Analysis of the Massachusetts Reaction Form revealed that less than one-third of the participants expected to be using computers or office equipment in future employment. In the Metro South/West SDA, over one-third of the enrollees took training emphasizing the utilization of computers. One hundred percent of the North Central SDA participants were instructed in computer assisted design and computer processing.

The Metro South/West participants were required upon program acceptance to research the occupation they pursued. In mid-October, the North Central participants completed the Industry Trends and Occupations workshop offered by the Industrial Services Program. By early December, the MSW participants completed the workshop. The expected wages recorded on the Massachusetts Reaction Form by participants averaged higher than the training sponsor's projected placement wages and were substantially above the entry wages subsequently obtained. By June 1996, the participant's wages were modified as reported on the Massachusetts Response Form. The anticipated wages approximated the actual entry wages offered the graduates of the program. A woman who had originally expected to earn \$50 per hour changed her expectations to an average hourly wage ranging from \$7 to \$50. Another woman who anticipated a starting wage of \$20 modified her expectations to an average hourly wage ranging from \$8 to \$10. She accepted an on-the-job training position with a starting wage of \$7.21 per hour. She was satisfied that her wage would increase upon completion of her formal on-the-job training.

RECOMMENDATIONS

- 1. Gather and make local labor market information available for customer's use.
- **2.** Before the start of the program, require labor market research so that participants have realistic expectations and a clear vision of career paths.
- **3.** Provide a transition to job placement through labor market research and a job search session.
- **4.** Provide current information on career pathways and the wages of experienced workers for the selected nontraditional occupation for which training is provided.
- 4. Self-awareness and self-esteem workshops were included in the nontraditional occupations training program and found to be beneficial for retention and confidence by the participants.

Training sponsor administrators believed that the selfawareness and self-esteem workshops improved program retention (89% in Metro South/West and 97% in North Central Massachusetts). Participants found these workshops beneficial. Participants completing the Massachusetts Reaction Form noted that they hoped the program would increase their self-confidence. On the Workshop Evaluation Form, participants rated the overall effectiveness of the Selfawareness Workshop as 5.0 on a five point scale. The Self-esteem Workshop received a rating of 4.8. Three respondents on the Massachusetts Response Form rated the self-esteem workshops as the most valuable portion of the training program. The women confided "the self-esteem workshops were most valuable to me", "general training, team building, selfesteem were most valuable to me", and "the portion of the training most valuable to me was self-esteem". Post-placement follow-up revealed that four women commented on increased self-confidence: "The support of the group increased my self-confidence", "I got a lot of self-confidence from the program", "selfconfidence improved", "self-esteem workshop was great".

RECOMMENDATIONS

- 1. Provide group social and emotional support activities, particularly self-awareness and self-esteem building.
- 5. Mentoring programs required tremendous time commitment, coordination and planning.

In the Metro South/West SDA, twelve months (June to June) were required to recruit two mentors for four students at TAD Technical Institute. The training institutions and Women in the Building Trades augmented the mentor search. Recruitment for mentors for the North Central REB began earlier in May 1995. Onehundred fifty women were contacted for leads. Potential mentor identification of thirty women yielded, by March, eight women able to provide mentoring. The Bay State Skills Corporation noted that the occupations and industries must be identified far in advance of the start of the program. The logistics of matching mentors and protegees from distant and diverse geographic areas was significant in the Metro South/ West. The availability of the Leominster Center for Technical Education provided a designated meeting place in North Central Massachusetts.

RECOMMENDATIONS

- **1.** In recruiting mentors, it is important to define their roles and responsibilities.
- 2. Well in advance of the start of the training program, identify women successfully employed in non-traditional occupations to recruit as potential mentors. Utilize the literature of professional and trade associations to identify potential mentor resources. Some associations have lists of members available for informational interviewing and community participation.
- **3.** Well in advance of the start of the training program, create a directory of profiles of women working in nontraditional occupations. Include name, job title, employer, telephone, comments/advice and availability for career activities.
- **4.** Do not exclude men or women pioneers employed in formerly nontraditional occupations from the mentor pool.

- 5. Pravide training to potential mentars.
- **6.** Create a social milieu (restaurant, reception at wamen's arganization ar club, caffee klatsches) for mentar-protege grientation.
- **7.** Fallow up to determine if the mentor/protege is a good match for both participants.
- **8.** Provide active mentoring with frequent cammunication (by phane, fax and in person) between mentar and pratege.
- 6. A modified voucher approach permitted individualized, customized training meeting the interests and aptitudes of the participants. It was empowering for the participants, but time-consuming for the training sponsors. The process was dependent on academic calendars and involved fiscal controls, contracting, scheduling, interagency coordination, and intensive follow-up.

The average time from the participant's first contact with the Metro South/West's intake to the start of the individualized training was ten weeks, with a made of seven weeks. Metro South/West participants engaged in formal assessment, researched an occupation, and conducted their own training institution selection. Upon approval of the training selection, the participant started the admission process. Upon the participant's acceptance, the MSW case manager initiated the tuition payment. The participant flow from the initial contact with the North Central REB intake to enrollment in the group training averaged four weeks (with a mode of four weeks). Thus, the individualized referral to a training institution pracess consumed more than twice the preparation time as graup enrallment.

The participants in the Metra South/West program selected training situations for the occupations for which they expressed a preference in the *Massachusetts Reaction Form*. The Metro South/West REB authorized tuitian payment upon review and approval of the participant's choice. The Metro South/West pracess took up to one manth fram application to the participant's start of training. The enrallment schedule

af participants was impacted by academic schedules. During the first faur manths af the MSW pragram, women enralled in training programs at praprietary and regianal vocational technical schaals which had manthly start dates. In the secand half of the program, enrallments were in predominantly semester-based certificate programs at calleges, proprietary schaals, and regianal vacational technical schaals.

In Phase Three of the North Central training pragram, participants selected courses fulfilling their individualized emplayability plans. Phase Three began in February 1996, a manth past the prevalent spring semester start in calleges and regional vocational-technical schaals. The initial enrallments were at an emplayer-spansared technical institute. Appraval standards and tuitian ceilings were established by the REB Executive Directar. A quasi-letter of credit was devised to permit students timely enrallment. Cammunications and coordination with training institutions (admissions, financial officers and training instructors) and participants were required to monitor student's progress.

RECOMMENDATIONS

- 1. Utilize as much as possible apen-entry/apen exit enrollment in pragrams instead af set entry and exit dates.
- 2. Utilize occredited training institutions offering portable credentials such as diplomas, certificates, academic credit or degree.
- **3.** Utilize praprietary training schools (schools run far prafit and linked to particular businesses and occupations) far shart-term, open-enrollment training.
- **4.** Use vocational technical schaals and community colleges which affer quality training at reasonable costs
- **5.** Work with vocational-technical schools and community colleges offering fall, spring and summer semesters to maximize the use of available schedules.
- **6.** Expect to odapt the training to the normal academic calendar offered by local training institutions. If the need for training is great and immediate, budget sufficient training funds far nantraditional schedules, evening hours, or weekend training.
- 7. Work with vacational technical schools and cam-

- munity calleges to create curricula with increased appartunities for hands-an instruction and an-the-jab training.
- **8.** Meet with admissians and fiscal officers of training institutions to create mutually acceptable referral and tuition payment pracesses.
- **9.** Cansider a "modified vaucher" approach to finance individual referrals to proprietory schools, vacational-technical schools, community colleges and callege courses.

7. Employer involvement in the design of curricula increased the relevancy of training, improved the delivery of training, and boosted participants' motivation.

The North Central REB staff partnered with the local technical school, a community callege and the North Central Plastics Council in the design and implementatian of the training program, Wamen in Plastics. The curriculum met the expressed needs of industry representatives. Mold making, computer processing, and CAD/CAM were included in the curriculum, Current topics such as ISO 9000, the European quality control standard, were covered in the curriculum. Many employers guest-lectured. The participants appreciated and expressed a desire for increased hands-on-training on the Massachusetts Training Evaluation Form. Out of the ten responses, seven thought that handson-training and vacational course work were mast valuable. Participants cammented favorably on the hands-on training, factory visits, and the input of various industry speakers. One participant expressed a desire for "more one on one with prospective emplayers about openings, wages, experience needed. How to get into the industries willing to train people." In the post-employment fallow-up, two participants painted out the relevancy of the training. One woman exclaimed "this course helped me understand the process and what my company does to make money". Another participant stated "In the next two months, my workplace will be installing camputers at every wark station. I need this course to get a jumpstart". A third waman noted: "Loved trip to plastics museum".

Training program	Occupations Er	nployment Outlook 1994 - 2005	Median Entry Hourly Wage
Electrical/Electronics Equipment Repair	Commercial and Industrial Electronic Equipment Repairer	5%	\$13.80
Auto/Automotive Mechanic	Automobile Body Repairer Auto Mechanic	9% 14%	\$9.00 \$8.50
Electrical/Electronics/ Communication Technologies	Diesel Mechanic Electrical and Electronics Technicians	15% 8%	\$12.49 \$14.07
Business Systems Networking	Computer Programmer	21%	\$18.55
Graphics and Printing Equipment Operations	Designer Electronic Pagination System Workers	25% 70%	\$14.95
	Printing Strippers Printing Press Operator	2% -3%	\$8.65
Computer Installer/Repairer	Computer Service Technicians	42%	\$15.00
Water Quality/Wastewater Treatment	Water & Liquid Waste Treatment Operators	11%	INA
Biomedical Engineering Related Biological Technology	Life Science Technician Sales Representative, Scientific	12% 5%	\$10.32 \$18.78
Carpentry	Carpenter	15%	\$9.58
Heating/Air Conditioning/Ventilating	Heating, Air Conditioning, and Refrigeration A	Nechanic 25%	\$12.71
Truck, Bus & Other Commercial Driving	Truck Driver, Heavy	7%	\$10.00

The Women in Plastics Program was designed with input from representatives of the plastics industry. A molds manufacturer stated "Skills are in high demand as well as well paid". The training included mold polishing, computer processing, and computer assisted design, skills identified as needed by the plastics industry.

Industry	Growth Occupations within Industries	Net Employment Change 1994-2005	Median Entry Hourly Wage	
Rubber and Miscellaneous Plastics Industries	Numerical Control Machine Tool Operato	rs 25%	\$9.91	
	Industrial Machinery Mechanics	10%	\$10.54	
	Machinery Maintenance Workers	6%	\$10.54	
Chemicals and Allied Products	Chemical Technicians	15%	\$10.58	

RECOMMENDATIONS

- **1.** Include local employers in the design of curricula for training programs.
- 2. Consider proprietary schools, vocational-technical schools and community colleges with employer advisory boards or employer involvement because their training is more likely to be current with industry standards.
- **3.** Provide orientation, technical assistance, and lesson plans to industry representatives who are inexperienced in classroom teaching or guest lecturing.

8. Training was focused on occupations and industries which had favorable employment outlooks and paid living wages which contributed to the high entered employment rates of program participants.

One of the major criteria that the consortium which prepared the grant proposal used in selecting training sponsors was the identification of nontraditional occupations and industries with positive employment

growth and average entry hourly wages of \$7.00 or greater within their service delivery area. Both the Metro South/West and Metro North Central REBs met the criteria.

The MSW participants on completion of their occupational research selected training for occupations with favorable outlooks and adequate wages.

RECOMMENDATIONS

- 1. Use local labor market information for program planning.
- 2. Analyze current information on career pathways and the wages of experienced workers for the selected nontraditional occupation for which training is provided.

9. Multiple job search methods and intermediaries were used to secure employment

The grant proposal was vague about job search methods and placement intermediaries. Placement intermediaries cited in the proposal included contracted training institutions, the job listings of the employment service, and employers belonging to the Plastics Advisory Cauncil. Coordination and collabaration of job placement efforts were not considered in the proposal. A self-directed job search was assumed. As the participants completed their training, program administrators found that they needed to focus on job search efforts.

Multiple job search methods were used by North Central participants. One participant secured her job by applying directly to a plastics employer. Another participant found employment at a plastics company at which a guest speaker was employed. Two women gained employment at a plastics company at which a mentor worked. In response to the Massachusetts Placement Evaluation Form, three participants reported finding iobs through newspaper advertisements and one through the referral of a friend. Two of the three recipients who obtained employment after the program started subsequently were laid off because of slack work. These unsuccessful placements and a lack of jab seeking skills an the part of the woman with no work history and the five welfare recipients with limited wark histories suggested a need for a more aggressive jab search campanent. Displaced homemakers, welfare recipients and wamen with no work history generally had little familiarity with resume writing and career networking. The North Central REB director encouraged the participants to attend jab search workshaps at the Career Center of North Central Massachusetts, Incorporating the resume development, networking, and interviewing workshops offered by the career center increased the job seeking success of those who participated.

RECOMMENDATIONS:

- 1. Hold intensive job search workshops.
- 2. Hold workshops on career networking.
- **3.** Use multiple job search intermediaries including training instructors, placement services of training institutions, and the employment service.
- **4.** Send brief profiles of graduates to employers in appropriate industries.
- **5.** Develop placement marketing tools for employers explaining the benefits of the trained workers, i.e. increased productivity, improved retention, reduced training costs.
- **6.** Organize support groups for job seekers.

10. Intensive follow-up increased training retention and increased "entered employments" and "employability enhancements", reportable on the Job Training Partnership Act reporting system.

A case manager was assigned to monitor and followup on participants in the Metro South/West service delivery area. Training retention was vigorously pursued by the case manager. Job retention follow-up was delegated to the training institutions. Crossmatching revealed that one participant who moved had entered employment, and that two women had increased post-placement earnings.

The Women in Plastics Program provided intensive follow-up and tracking. However, in August 1996, the REB Executive Director left and a lag in the appointment af a REB staff member as liaison to the Women in Plastics program adversely affected follow-up. Earlier interventian may have salvaged two participants who dropped aut af Phase Three training in the early autumn of 1996. One participant left a community college course after twa classes and the other

dropped out of a course because of a lack of a computer to use to complete her homework assignments. The newly appointed REB staff member felt if it were known the REB might have intervened with the training institution on the women's behalf to arrange a course transfer, thus avoiding a loss of tuition. The newly appointed REB staff member initiated intensive follow-up, mailing the Course and Placement Followup Letter. She telephoned participants regularly. This aggressive follow-up captured wage increases received by ten women. The participants were repeatedly reminded of the availability of the job assistance services of the Career Center of North Central Massachusetts. As of early January 1997, twenty-eight of the thirty program completers were working and two women were enrolled full-time in community colleges.

RECOMMENDATIONS

- 1. Provide a case manager/counselor/liaison.
- **2.** Communicate frequently with training institution instructors on participant's progress.
- Conduct face-to-face follow-up visits at training and employment sites
- **4.** Provide intensive follow-up upon training completion to foster job placement and retention.
- **5.** Continue follow-up beyond the thirteen weeks required by JTPA to capture information on entered employment and wage gains.

Commonwealth of Massachusetts - Department of Employment and Training

Massachusetts Women in Non-Traditional Occupations

Massachusetts Women in Non-Traditional Occupations							
North Central Regional Employmen	Period Ending	March 31, 1997					
Participant and Termination Summary Total Participants Entered Employment Entered Employment Rate	Annual <u>Plan</u> 30 23 77%	Actual <u>YTD</u> 31 20 67%	Percent of Annual Plan 103% 87% 87%				
Training Vendor Leominster Center for Technical Educ.	Type of Training Plastics Technician	n	Participants 31				
Participant Characteristics Age 22 - 29 Age 30 - 39 Age 40 - 54 White Minority School Drop-out Welfare Recipient Single Head of Household Metro South/West Employment and	Participants 7 13 11 23 8 3 7 10	Percent of Total 23% 42% 35% 74% 26% 10% 23% 32% Period Ending	March 31, 1997				
	Traming		Ivial Cli 31, 1997				
Participant and Termination Summary Total Participants Entered Employment Entered Employment Rate Training Vendor Assabet Valley Vocational Tech. Assabet Valley Vocational Tech. Assabet Valley Vocational Tech. Bay State School of Appliances Bay State School of Appliances ITT Technical Institute TAD Technical Institute TAD Technical Institute Quincy College Minuteman Tech Minuteman Tech New England Tractor Trailer Clark University Clark University	Annual Plan 30 23 77% Type of Training Refrigerator Repa Electronics Carpentry Computer Electro Major Appliance I Electronics Auto Technician Diesel Technician Environmental Sci Biological Techno Biomedical Engin. Truck Driver Business Systems I Graphic/Printing I Computer graphic	nics Repair Sences logy /Technology Networking Equip. Oper.	Percent of Annual Plan 93% 96% 102% Participants 1 2 1 1 4 1 4 2 1 1 1 1 1 1 1 1 1 1 1				
Clark University RETS Keefe Tech	CNE/Computer Factoric Technic Graphic/Printing I	cian	1 1 1				
Participant Characteristics Age 22 - 29 Age 30 - 39 Age 40 - 54 Age 55 and over White Minority School Drop-out Welfare Recipient Single Head of Household	Participants 9 12 6 1 23 5 6 11 17	Percent of Total 32% 43% 21% 4% 82% 18% 21% 39% 61%	NTOMar97 FINAL 3/18/97				





CONSTRUCTION & MAINTENANCE PAINTING & PAINT SPRAYING MACHINE OPERATORS PAPERHANGERS PARKING LOT ATTENDANTS PEST CONTROL OCCU-🕵 LITHOGRAPHERS PHYSICISTS & ASTRONOMERS PLASTERERS PLUMBERS PIPEFITTERS & 👞 AMFITTERS POLICE DETECTIVES POWER PLANT OPERATORS PRECISION ASSEMBLERS METAL PRECISION GRINDERS FILERS & TOOL SHARPENERS PRINTING PRESS OPERATORS PRODUCTION HELPERS RAILROAD CONDUCTORS & YARDMASTERS ROOKS GINEERS SALES WORKERS HARDWARE & BUILDING SUPPLIES SALES WORKERS MOTOR VEHICLES & BOATS SALES WORKERS AUTOMOTIVE PARTS SEPARATING FILTERING & CLARIFYING MACHINE OPERATORS SHEET METAL WORKERS SHEETMETAL & DUCT INSTALLERS SHERIFFS BAILIFFS & OTHER LAW ENFORCEMENT OFFICERS SHIP CAPTAINS SHOE REPAIRERS ERS SPECIFIED MECHANICS & PEPAIRERS STRUCTURAL METAL WORKERS SUPERVISORS PLUMBERS PIPEFITTERS & STEAMFITTERS SUPERVISORS BRICKMASONS STONEMASO La GITERS SUPERVISORS CARPENTERS & RELATED WORKERS SUPERVISORS CLEANING & BUILDING SERVICE WORKERS SUPERVISORS CONSTRUCTION SUPERVISORS ELECTRICIANS & POWER TRANSMISSION INSTALLERS SUPERVISORS FIREFIGHTING & FIRE PREVENTION OCCUPATIONS SUPERVISORS GUARDS SUPERVISORS MECHANICS & REPAIRERS SUPERVISORS MOTOR VEHICLE FRATORS SUPERVISORS PAINTERS PAPERHANGERS & PLASTERERS SUPERVISORS POLICE & DETECTIVES SUPERVISORS PRODUCTION OCCUPATION SUPERVISORS RELATED AGRICULTURAL OCCUPATION SURVEYING & MAPPING TECHNICIANS TAXICAL AUFFEURS TELEPHONE INSTALLERS REPAIRERS TELEPHONE LINE INSTALLERS & REPAIRERS TILE SETTERS HARD & SOFT TIMBER CUTTING & LOGGING OCCUPATIONS TOOL & DIE MAKERS TRAFFIC SHIPPING & RECEIVING CLERKS TRANSPORTATIO MUNICATIONS & OTHER PUBLIC UTILITIES TRUCK DRIVERS UPHOLSTERERS USHERS VEHICLE WASHERS EQUIPMENT CLEANERS WATER & SEWAGE TREATMENT PLANT OPERATORS WELDERS CUTTERS WHOLESALE & RETAIL TRADE BUYERS AEROSPACE IN LEERS AIRPLANE PILOTS